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HANFORD SITE GROUND-WATER MONITORING FOR APRIL THROUGH JUNE 1987

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SUMMARY

In a continuing effort for the U.S. Department of Energy (DOE), Pacific Northwest Laboratory (PNL) is conducting ground-water monitoring at the Hanford Site. Results for monitoring by PNL and Westinghouse Hanford Company (WHC) during April-June 1987 show that certain regulated hazardous materials and radionuclides exist in Hanford Site ground waters. The presence of regulated constituents in the ground water derives both from site operations and from natural sources (for some constituents). The major contamination problems defined by recent monitoring activities are 1) carbon tetrachloride in the 200 West Area; 2) cyanide in and north of the 200 East Area; 3) hexavalent chromium contamination in the 100B, 100D, 100K, and 100H Areas; 4) chlorinated hydrocarbons in the vicinity of the Central Landfill; 5) uranium at the 216-U-1 and 216-U-2 cribs in the 200 West Area; 6) tritium across the site; and 7) nitrate across the site. The distribution of hazardous materials related to site operations is more limited than the distribution of tritium and nitrate.

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INTRODUCTION

The ground water on the Hanford Site in southeastern Washington State (Figure 1) is sampled to monitor the distribution of radionuclides and other hazardous materials and to evaluate the impact of past and present site operations on the environment. The Pacific Northwest Laboratory (PNL) program monitors contaminants in the ground water and their migration to other pathways (e.g., the Columbia River). The monitoring well network is designed to meet the intent of U.S. Department of Energy (DOE) Orders 5480.1 and 5484.1, which are applicable to environmental monitoring. DOE Order 5480.1, Chapter XI, lists the permissible concentrations of radionuclides applicable to the discharge of liquid effluent in controlled and uncontrolled areas. This order also requires that the environment be monitored sufficiently to ensure that the radiation doses the public is exposed to are as low as reasonably achievable (ALARA). DOE Order 5480.1, Chapter XII, requires that DOE cooperate with the U.S. Environmental Protection Agency (EPA) and state, interstate, and local agencies in the prevention, control, and abatement of environmental pollution. Annual reports, e.g., Environmental Monitoring at Hanford for 1986 (PNL 1987), are published by PNL to document all surface and subsurface monitoring activities at the site, as well as measured and calculated doses to the public.

Results from 1986 monitoring by PNL indicated that tritium, nitrate, and certain mobile radionuclides released to the ground-water system continued to migrate slowly, i.e., over tens of years, toward the Columbia River (PNL 1987). Plumes of some of these constituents emanate from operating areas within the Hanford Site and enter the river through springs and the river bed at downgradient locations.

The objectives of site-wide chemical and radiological monitoring are to 1) determine the distribution of radionuclides and nitrate ion to define the extent of impacted ground water; 2) relate the distribution of these constituents to site operations; 3) establish background concentrations for naturally occurring regulated hazardous materials; and 4) identify hazardous chemicals in the ground water that resulted from site operations.

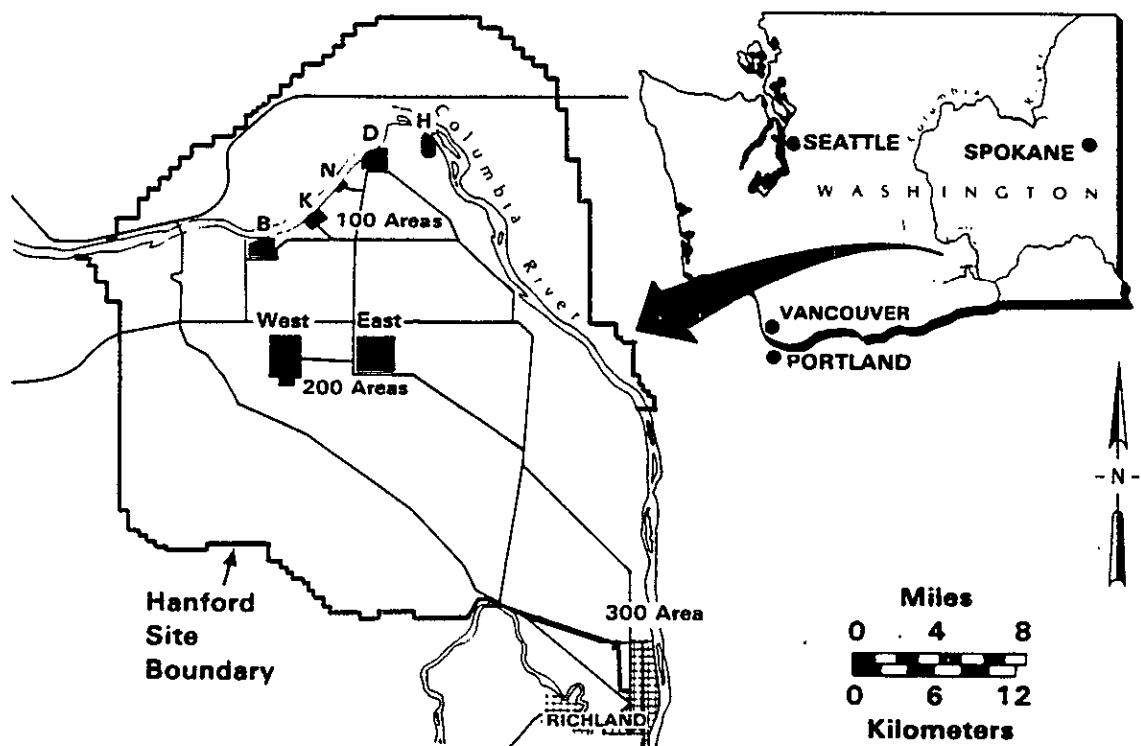


FIGURE 1. Location of the Hanford Site

Other ground-water monitoring activities at the Hanford Site are also being conducted by PNL or Westinghouse Hanford Company (WHC) for compliance with the Resource Conservation and Recovery Act (RCRA) and/or Washington Administrative Code (WAC) 173-303. These activities include sampling programs at the 183-H Solar Evaporation Basins in the 100H Area, Transportable Grout Facility, 300-Area Process Trenches, Solid Waste Landfill (SWL), and Non-Radioactive Dangerous Waste Landfill (NRDW). (The SWL and the NRDW together will be referred to as the Central Landfill.) The results of these studies are discussed briefly in this report and will be reported later in more detail elsewhere. These compliance monitoring results (primarily for chemicals) are valuable in determining the total impact of Hanford Site operations on ground water. Most of the radiological results included in Appendix A were provided by PNL's site-wide or WHC's operational (in and around the 200 Areas) monitoring programs.

This report provides brief discussions and detailed data listings of results for ground-water monitoring at the Hanford Site during April through June of 1987. More detailed discussions of the hydrology and geology of the site, operational activities, sampling, analysis, and distributions of average constituent concentrations during 1986 are included in the most recent annual report by PNL (1987). Also, Law, Serkowski, and Schatz (1987) have reported 1986 radiological monitoring results for the 200 Areas and some of the surrounding 600 Area.

The following text describes the monitoring networks, analytical plans, and monitoring results for all Hanford ground-water monitoring programs. Because of their high concentrations, regulatory implications, or wide-spread distribution, seven contaminants are discussed in detail: 1) carbon tetrachloride in the 200 West Area; 2) cyanide in and north of the 200 East Area; 3) hexavalent chromium contamination in the 100B, 100D, 100K, and 100H Areas; 4) chlorinated hydrocarbons in the vicinity of the Central Landfill; 5) uranium at the 216-U-1 and 216-U-2 cribs in the 200 West Area; 6) tritium across the site; and 7) nitrate across the site. The potential implications of several other observations are also discussed briefly. Appendix A includes all results reported above detection levels for chemicals, and those radiochemical results for which the result is larger than the counting error. The three large tables in Appendix A contain all available chemical and radiological results for 1) site-wide chemical monitoring; 2) site-specific monitoring for compliance with RCRA and/or WAC; and 3) site-wide radiological and nitrate monitoring for wells not included in the first two tables. Both PNL's and WHC's results are included in all tables.

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SAMPLING AND ANALYSIS

SAMPLING NETWORKS

The ground-water monitoring networks at the Hanford Site include both site-wide and site-specific networks. The current PNL site-wide radiological sampling network consists of 391 wells, 316 of which were sampled this quarter. In the 200 Areas and surrounding 600 Area, PNL sampled 153 wells so that the Operating Contractor (WHC) could monitor site-specific waste disposal. Although an overlap in wells exists between the two networks, each program analyzed the well samples for different constituents. In general, PNL complemented WHC's site-specific radiological monitoring near active and inactive waste-disposal sites by including those constituents that could possibly migrate from other inactive waste facilities.

A subset of both the PNL and WHC radiological networks is used for site-wide chemical sampling by PNL. Over 100 chemical sampling wells were selected primarily for their proximity to known active and inactive chemical disposal areas in the 100, 200, and 600 Areas and on the basis of the waste inventories compiled in the report titled "Draft Phase I Installation Assessment of Inactive Waste Disposal at Hanford." (a) Areas covered by RCRA compliance monitoring, such as the 300 Area and the 100H Area, were not included in the site-wide chemical monitoring network, although their monitoring results are included in the data listings in Appendix A. Only wells containing submersible pumps were chosen to allow sufficient purging of wells prior to sampling. (It is not physically feasible to equip all sampling wells in the 200 Areas with pumps.) Nineteen more wells were sampled in conjunction with a DOE Headquarters Environmental Audit Team (DOE/HQ-EAT) during June 1987.

The site-wide monitoring network is shown in Figure 2. Detailed maps of site-specific monitoring well networks for the 100H, 100N, 200 East, 200 West and 300 Areas are included in Figures 3, 4, 5, 6, and 7, respectively. Those wells used for site-wide chemical or compliance sampling are noted in each figure. Most wells sample the unconfined or shallow aquifer; wells that

(a) U.S. Department of Energy, 1986, Richland, Washington.

are constructed to sample from confined aquifers are noted in all figures. Water table elevations for the unconfined aquifer in June 1986 are shown in Figure 8. The general directions of ground-water flow can be determined from Figure 8 by drawing flow lines perpendicular to the equipotential contours and moving from high to low contours.

SAMPLING METHODS

Samples from the unconfined aquifer were collected in wells that are typically screened between 3 and 6 m (10 and 20 ft) below the water table. This sampling approach has been justified because maximum concentrations for some radionuclides were measured near the top of the aquifer at a few Hanford Site locations in a study by Eddy, Myers, and Raymond (1978).

Wells fitted with submersible pumps (0.63 L/s or 10 gal/min) were sampled after pumping for a long enough time (at least 20 min) to allow temperature, pH, and specific conductivity to equilibrate. This purging process ensures that any standing water in the well has been removed, allowing collection of a sample that is representative of the ground water near the well. A stainless steel sampling tee was then connected to the pump discharge line. One side of the tee consisted of a 0.476-cm (3/16-in.) critical orifice discharging to a 0.635-cm (1/4-in.) Teflon® sampling line. Excess water was discharged through a ball valve on the other branch of the tee. This arrangement allowed the pump discharge to be throttled back sufficiently to provide a continuous water column, while providing some pressure relief to avoid damage to the header pipe. Samples for volatile organic analyses were taken with zero head space and sealed immediately with a septum-sealed cap. For filtered trace metals, a disposable, 0.45-micron pore-sized filter pack was connected to the Teflon sampling line. The filter was prepurged with 500 ml (0.13 gal) of well water and then a sample was collected in a plastic bottle. Trace metal samples and some radiochemical samples were preserved by acidification at the time of collection. All samples were placed in numbered ice chests immediately after sampling and

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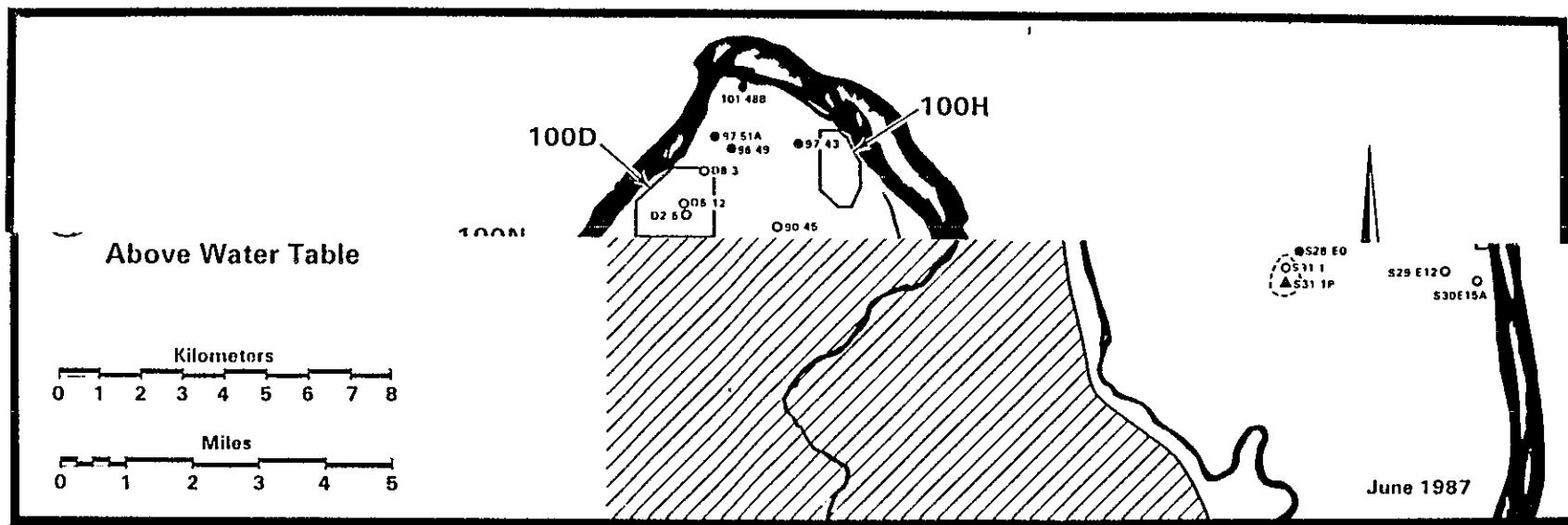


FIGURE 2. Location of Site-Wide Ground-Water Monitoring Wells Sampled During April-June 1987 (see Figures 2-6 for wells in the 100H, 100N, 200 East, 200 West and 300 Areas)

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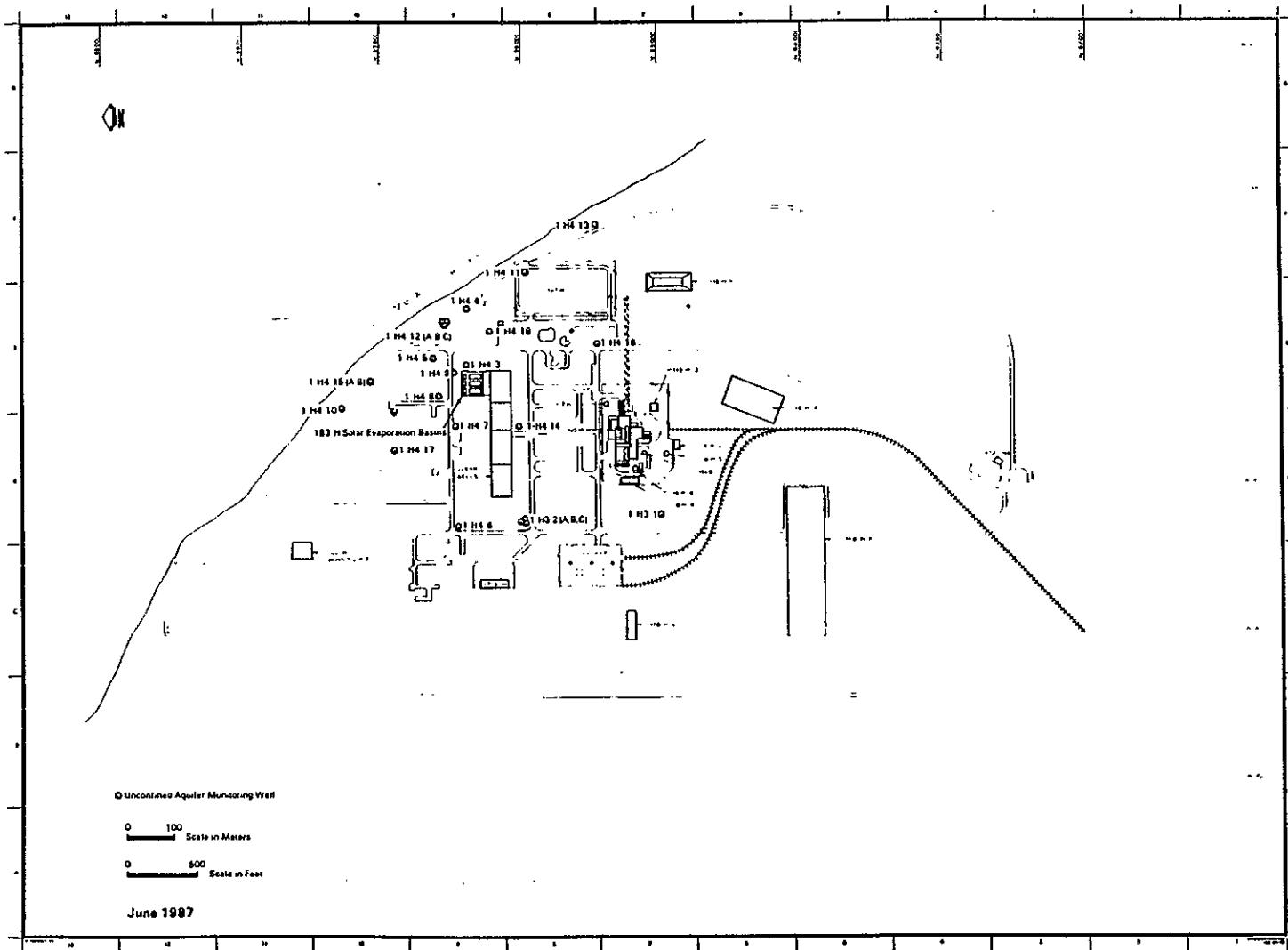


FIGURE 3. Location of Ground-Water Monitoring Wells in the 100H Area Sampled During April-June 1987

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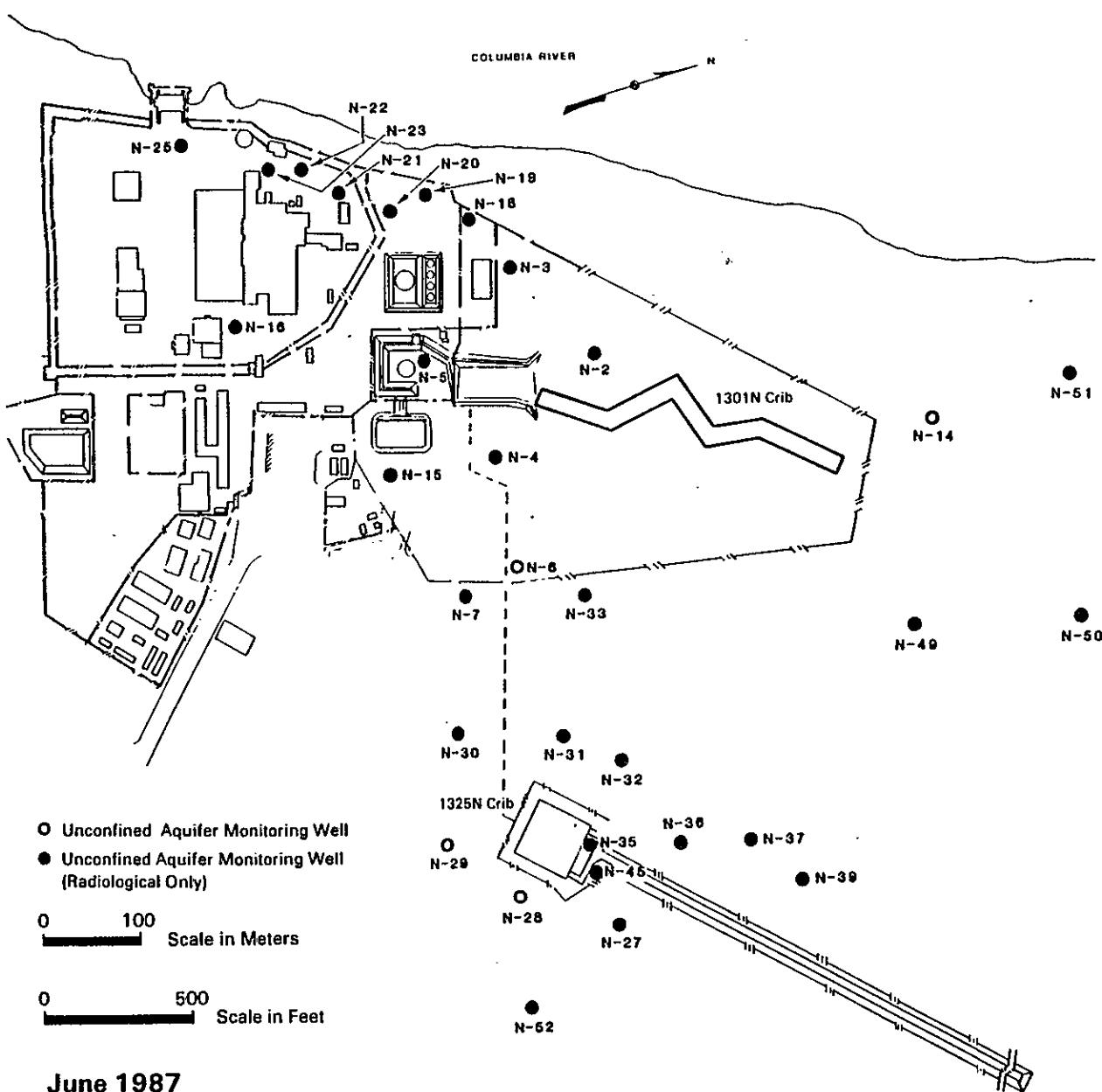
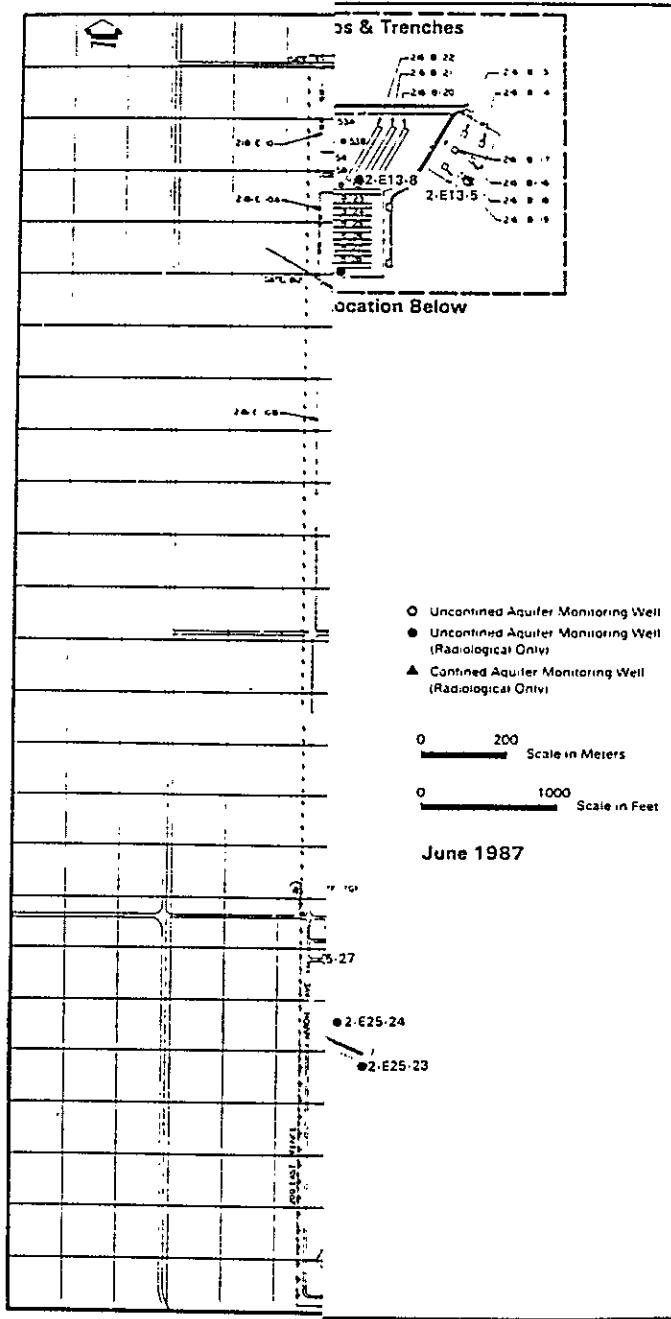
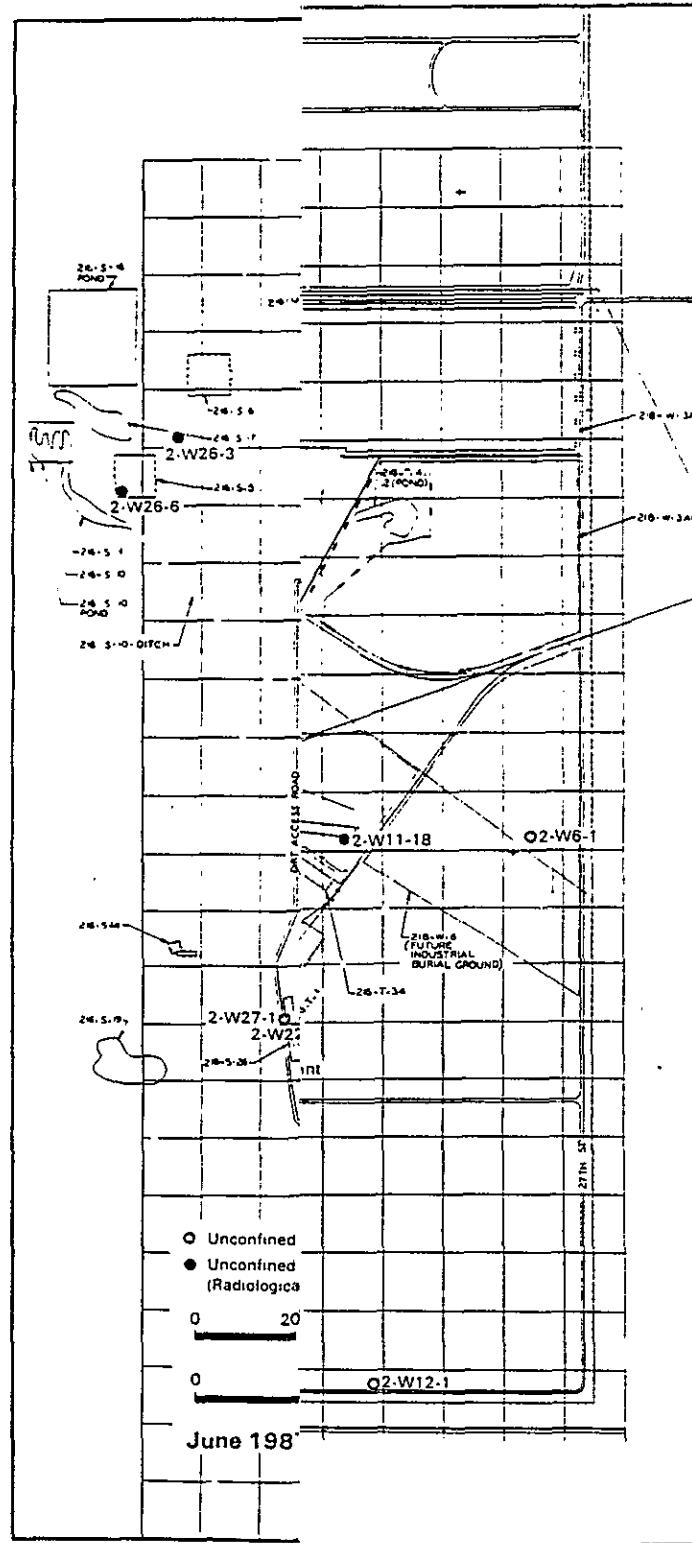


FIGURE 4. Location of Ground-Water Monitoring Wells in the 100N Area Sampled During April-June 1987



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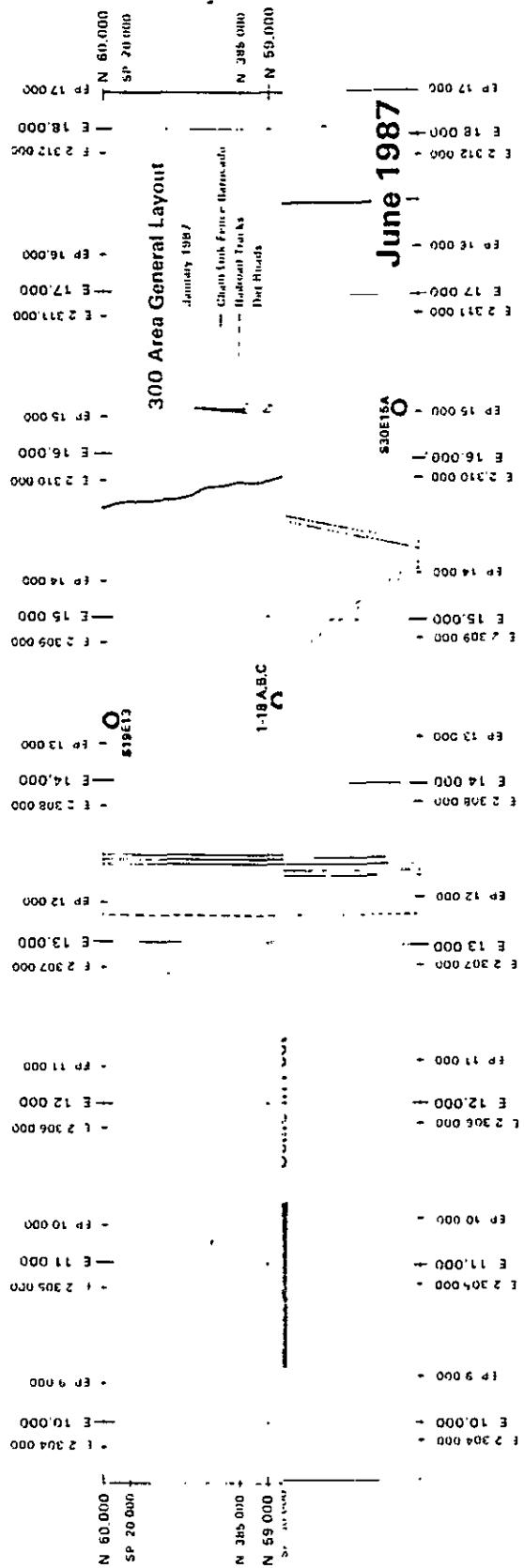


FIGURE 7. Location of Ground-Water Monitoring Wells in the 300 Area Sampled During April-June 1987

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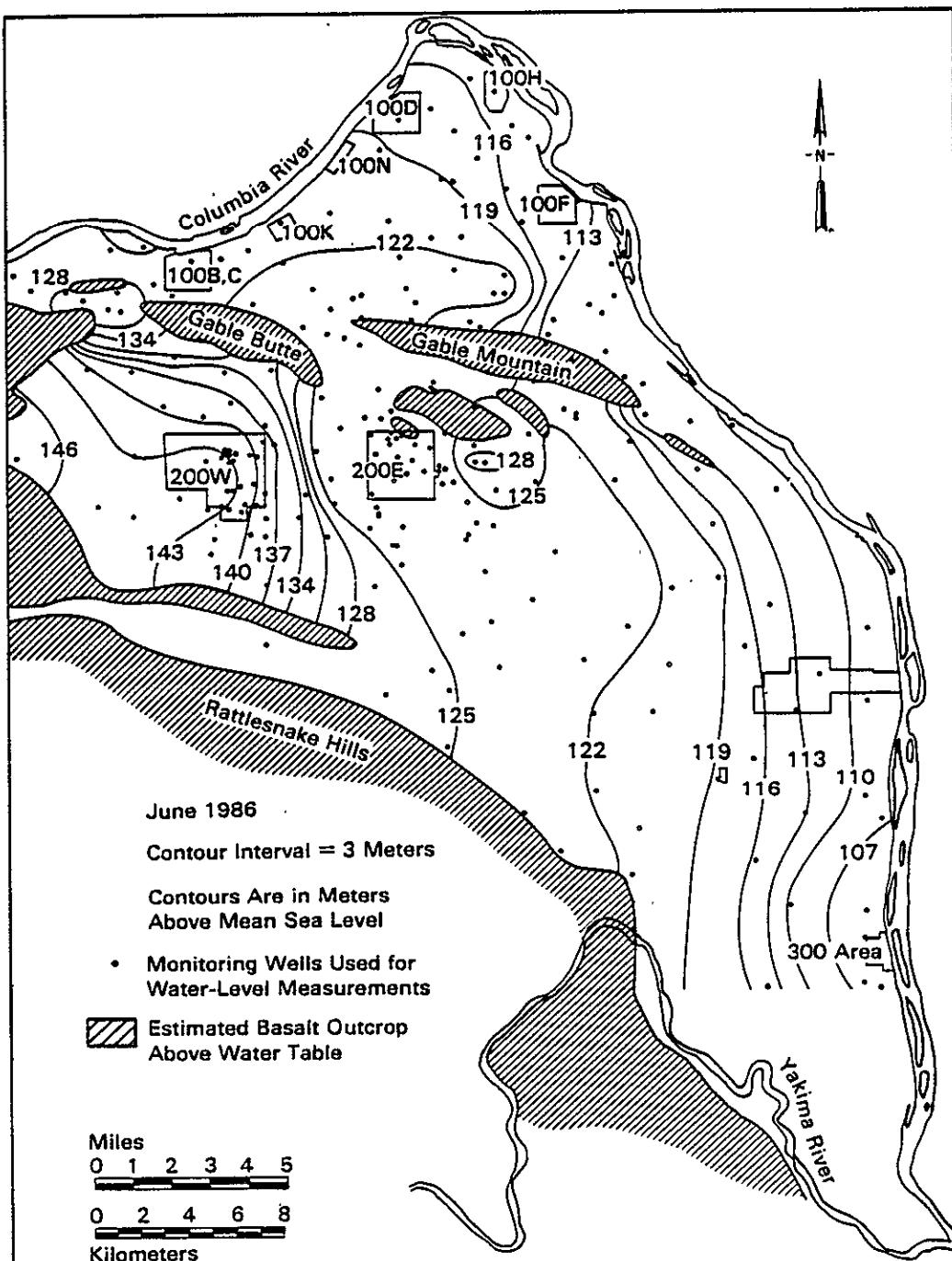


FIGURE 8. Water-Table Elevations for the Unconfined Aquifer in June 1986 (Schatz and Jensen 1986)

were transferred the same day or early the next morning to the analytical subcontractor, U.S. Testing (UST) of Richland, Washington, for immediate analysis of species with short holding times (e.g., for nitrate and volatile organic analyses). Samples were stored at no warmer than 4°C (39°F) from the time of sampling until they were analyzed. All samples were tracked by chain-of-custody procedures from sampling through analysis and disposal.

ANALYTICAL PLANS

This section contains tables listing the constituents for which samples taken during the quarter had been analyzed and reported by UST at the time of writing. Some planned sample collection and analyses were not conducted because of unavoidable problems in the field. For example, some samples could not be filtered; consequently, no filtered trace element analyses were performed for those wells. Table 1 is a key to the constituent and constituent group names used in Tables 2, 3, and 4. The same constituent names are also used in the data listings in Appendix A. Table 2 shows the constituents analyzed for in samples collected in the site-wide chemical monitoring network during the quarter (those wells co-sampled by DOE/HQ-EAT are footnoted in Table A.1, Appendix A). When the data from DOE/HQ-EAT become available, a detailed comparison of results will be made and documented as part of the project's quality assurance/quality control (QA/QC) program. The analyses conducted in samples collected from compliance monitoring wells are indicated in Table 3 (Table A.2, Appendix A, shows which wells were sampled at each of the compliance monitoring sites). The site-wide radiological (plus nitrate) analyses for those wells outside the site-wide chemical or compliance monitoring networks are listed in Table 4. The frequency of sampling or specific monitoring programs are not indicated in Tables 2, 3, and 4 to simplify the tables. Most wells were sampled once during the quarter, with the exception of a few wells that were sampled monthly. Some analyses in 200-Area wells are conducted semiannually. Compliance monitoring in the 100H and 300 Areas is conducted monthly and bimonthly, respectively. Sample collection dates are included in the data tables in Appendix A.

Analyses were performed by UST following EPA-approved procedures (USEPA 1982) or other standard methods. In a few cases for which standard methods were not available, methods were developed and documented by PNL. Specific conductance, pH, and temperature were measured in the field at the time of collection, in accordance with documented procedures. The analytical procedures have been described elsewhere (PNL 1987, Appendix D).

TABLE 1. Key to Constituent and Constituent Group Names Used in Tables 2, 3, and 4

Individual Constituents

Name in Tables	Units	Full Name
ALKALIN	ppb	Total alkalinity in ppb CaCO ₃
AM-241	pCi/L	Americium-241
AMMONIU	ppb	Ammonium ion
ARSENIC	ppb	Arsenic
BETA	pCi/L	Gross beta
BROMIDE	ppb	Bromide
CITRUSR	ppb	Citrus red
COLIFRM	mpn(a)	Coliform bacteria
CONDFLD	μmho	Specific conductance
CYANIDE	ppb	Cyanide
DIOXIN	ppb	Dioxin
ETHYGLY	ppb	Ethylene glycol
FARSENI	ppb	Arsenic, filtered
FLEAD	ppb	Lead, filtered
FMERCUR	ppb	Mercury, filtered
FSELENI	ppb	Selenium, filtered
FTHALLI	ppb	Thallium, filtered
HNITRAT	ppb	Nitrate, high detection limit
LEADGF	ppb	Lead (graphite furnace)
LHYDRAZ	ppb	Hydrazine, low detection limit
LOALPHA	pCi/L	Gross alpha
LPHENOL	ppb	Phenol, low detection limit
MERCURY	ppb	Mercury
NITRITE	ppb	Nitrate
PERCHLO	ppb	Perchlorate
PHFIELD		pH (measured in field)
RADIUM	pCi/L	Radium-226
SELENUM	ppb	Selenium
SR 90	pCi/L	Strontium-90
SULFIDE	ppb	Sulfide
TC	ppb	Total carbon
TC-99	pCi/L	Technetium-99
TDS	ppm	Total dissolved solids
THALIUM	ppb	Thallium
TOC	ppb	Total organic carbon
TOX	ppb	Total organic halogen
TOXLDL	ppb	Total organic halogen, low detection limit
TRITIUM	pCi/L	Tritium
U	pCi/L	Total uranium
U-CHEM	μg/L(b)	Total uranium

(a) mpn = most probable number.

(b) μg/L = ppb.

TABLE 1. (contd)

Group: DIRAQIN = Direct Aqueous Injection

<u>Name in Tables</u>	<u>Units</u>	<u>Full Name</u>
1,1-DIM	ppb	1,1-dimethylhydrazine
1,2-DIM	ppb	1,2-dimethylhydrazine
ACETILE	ppb	Acetonitrile
ACRYIDE	ppb	Acrylamide
ALLYLAL	ppb	Allyl alcohol
CHLACET	ppb	Chloroacetaldehyde
CHLORAL	ppb	Chloral
CHLPROP	ppb	3-chloropropionitrile
CYANBRO	ppb	Cyanogen bromide
CYANCHL	ppb	Cyanogen chloride
CYANOGN	ppb	Cyanogen
DICPROP	ppb	Dichloropropanol
ETHCARB	ppb	Ethyl carbamate
ETHCYAN	ppb	Ethyl cyanide
ETHOXID	ppb	Ethylene oxide
FLUOROA	ppb	Fluoroacetic acid
GLYCIDIY	ppb	Glycidylaldehyde
HYDRAZI	ppb	Hydrazine
ISOBUTY	ppb	Isobutyl alcohol
METZINE	ppb	Methyl hydrazine
PARALDE	ppb	Paraldehyde
PROPYL	ppb	N-propylamine
PROPYNO	ppb	2-propyn-1-ol

Group: GAMMA = Gamma Scan

<u>Name in Tables</u>	<u>Units</u>	<u>Full Name</u>
CO-60	pCi/L	Cobalt-60
CS-137	pCi/L	Cesium-137
RU-103	pCi/L	Ruthenium-103
RU-106	pCi/L	Ruthenium-106
SB-125	pCi/L	Antimony-125

Group: HERB = Herbicides

<u>Name in Tables</u>	<u>Units</u>	<u>Full Name</u>
2,4,5TP	ppb	2,4,5-TP silvex
2,4-D	ppb	2,4-D

Group: HERBE = Herbicides, enhanced (HERB plus the following)

<u>Name in Tables</u>	<u>Units</u>	<u>Full Name</u>
2,4,5-T	ppb	2,4,5-T

TABLE 1. (contd)

Group: ICPMT = ICP Metals

Name in Tables	Units	Full Name
ALUMNUM	ppb	Aluminum, unfiltered
BARIUM	ppb	Barium, unfiltered
CADMNUM	ppb	Cadmium, unfiltered
CALCIUM	ppb	Calcium, unfiltered
CHROMUM	ppb	Chromium, unfiltered
COPPER	ppb	Copper, unfiltered
IRON	ppb	Iron, unfiltered
MAGNES	ppb	Magnesium, unfiltered
MANGESE	ppb	Manganese, unfiltered
NICKEL	ppb	Nickel, unfiltered
POTASUM	ppb	Potassium, unfiltered
SILVER	ppb	Silver, unfiltered
SODIUM	ppb	Sodium, unfiltered
VANADUM	ppb	Vanadium, unfiltered
ZINC	ppb	Zinc, unfiltered

Group: ICPMTE = ICP Metals, enhanced (ICPMT plus the following)

Name in Tables	Units	Full Name
ANTIONY	ppb	Antimony, unfiltered
BERYLAM	ppb	Berylliam, unfiltered
OSMIUM	ppb	Osmium, unfiltered
STRONUM	ppb	Strontium, unfiltered

Group: ICPMTF = ICP Metals, filtered

Name in Tables	Units	Full Name
FALUMIN	ppb	Aluminum, filtered
FBARIUM	ppb	Barium, filtered
FCADMIU	ppb	Cadmium, filtered
FCALCIU	ppb	Calcium, filtered
FCHROMI	ppb	Chromium, filtered
FCOPPER	ppb	Copper, filtered
FIRON	ppb	Iron, filtered
FMAGNES	ppb	Magnesium, filtered
FMANGAN	ppb	Manganese, filtered
FNICKEL	ppb	Nickel, filtered
FPOTASS	ppb	Potassium, filtered
FSILVER	ppb	Silver, filtered
FSODIUM	ppb	Sodium, filtered
FVANADI	ppb	Vanadium, filtered
FZINC	ppb	Zinc, filtered

TABLE 1. (contd)

Group: ICPMTFE = ICP Metals, filtered, enhanced (ICPMTF plus the following)

Name in Tables	Units	Full Name
FANTIMO	ppb	Antimony, filtered
FBERYLL	ppb	Beryllium, filtered
FOSMIUM	ppb	Osmium, filtered
FSTRONT	ppb	Strontium, filtered

Group: IONS = Ions

Name in Tables	Units	Full Name
CHLORID	ppb	Chloride
FLUORID	ppb	Fluoride
NITRATE	ppb	Nitrate
PHOSPHA	ppb	Phosphate
SULFATE	ppb	Sulfate

Group: PCBS = Polychlorinated Biphenyls

Name in Tables	Units	Full Name
AR1016	ppb	Arochlor 1016
AR1221	ppb	Arochlor 1221
AR1232	ppb	Arochlor 1232
AR1242	ppb	Arochlor 1242
AR1248	ppb	Arochlor 1248
AR1254	ppb	Arochlor 1254
AR1260	ppb	Arochlor 1260

Group: PEST = Pesticides

Name in Tables	Units	Full Name
ENDRIN	ppb	Endrin
METHLOR	ppb	Methoxychlor
TOXAENE	ppb	Toxaphene
a-BHC	ppb	Alpha-BHC
b-BHC	ppb	Beta-BHC
d-BHC	ppb	Delta-BHC
g-BHC	ppb	Gamma-BHC

Group: PESTE = Pesticides, enhanced (PEST plus the following)

Name in Tables	Units	Full Name
ALDRIN	ppb	Aldrin
CHLLATE	ppb	Chlorobenzilate
CHLOANE	ppb	Chlordane

TABLE 1. (contd)

DDD	ppb	DDD
DDE	ppb	DDE
DDT	ppb	DDT
DIELRIN	ppb	Die�drin
ENDO1	ppb	Endosulfan I
ENDO2	ppb	Endosulfan II
HEPTIDE	ppb	Heptachlor epoxide
HEPTLOR	ppb	Heptachlor

Group: PHOSPST = Phosphorus Pesticides

Name in Tables	Units	Full Name
CARBPHT	ppb	Carbophenothion
DIMETHO	ppb	Dimethoate
DISULFO	ppb	Disulfoton
METHPAR	ppb	Methyl parathion
PARATHI	ppb	Parathion
TETEPRYR	ppb	Tetraethylpyrophosphate

Group: PU-ISO = Plutonium Isotopes

Name in Tables	Units	Full Name
PU-238	pCi/L	Plutonium-238
PU39-40	pCi/L	Plutonium-239, Plutonium-240

Group: SEMVOL = Semi-volatile Organics

Name in Tables	Units	Full Name
12-dben	ppb	1,2-dichlorobenzene
1234TE	ppb	1,2,3,4-tetrachlorobenzene
1235TE	ppb	1,2,3,5-tetrachlorobenzene
123TRI	ppb	1,2,3-trichlorobenzene
13-dben	ppb	1,3-dichlorobenzene
135TRI	ppb	1,3,5-trichlorobenzene
14-dben	ppb	1,4-dichlorobenzene
HEXACHL	ppb	Hexachlorophene
HEXC BEN	ppb	Hexachlorobenzene
KEROSEN	ppb	Kerosene
NAPHTHA	ppb	Naphthalene
PENTCHB	ppb	Pentachlorobenzene
PHENOL	ppb	Phenol
TETRCHB	ppb	1,2,4,5-tetrachlorobenzene
TRICHLB	ppb	1,2,4-trichlorobenzene

TABLE 1. (contd)

Group: SEMVOLE = Semi-volatile Organics, enhanced (SEM VOL plus the following)

Name in Tables	Units	Full Name
1-napha	ppb	1-naphthylamine
2-napha	ppb	2-naphthylamine
24-dchp	ppb	2,4-dichlorophenol
24-dint	ppb	2,4-dinitrotoluene
245-trp	ppb	2,4,5-trichlorophenol
246-trp	ppb	2,4,6-trichlorophenol
26-dchp	ppb	2,6-dichlorophenol
26-dint	ppb	2,6-dinitrotoluene
ACEFENE	ppb	2-acetylaminofluorene
ACETOPH	ppb	Acetophenone
AMIIISOX	ppb	5-(aminomethyl)-3-isoxazolol
AMINOYL	ppb	4-aminobiphenyl
AMITROL	ppb	Amitrole
ANILINE	ppb	Aniline
ARAMITE	ppb	Aramite
AURAMIN	ppb	Auramine
BENDICM	ppb	Benzene, dichloromethyl
BENDINE	ppb	Benzidine
BENTHOL	ppb	Benzenethoil
BENZAAN	ppb	Benz[a]anthracene
BENZBFL	ppb	Benz[b]fluoranthene
BENZCAC	ppb	Benz[c]acridine
BENZCHL	ppb	Benzyl chloride
BENZJFL	ppb	Benzo[j]fluoranthene
BENZOPY	ppb	Benzo[a]pyrene
BIS2CHE	ppb	Bis(2-chloroethyl) ether
BIS2CHM	ppb	Bis(2-chloroethoxy) methane
BIS2EPH	ppb	Bis(2-ethylhexyl) phthalate
BIS2ETH	ppb	Bis(2-chloroisopropyl)ether
BROPHEN	ppb	4-bromophenyl phenyl ether
BUTBENP	ppb	Butyl benzyl phthalate
BUTDINP	ppb	2-sec-butyl-4,6-dinitrophenol
CHALETH	ppb	Chloroalkyl ethers
CHLANIL	ppb	P-chloroaniline
CHLCRES	ppb	P-chloro-m-cresol
CHLEPOX	ppb	1-chloro-2,3-epoxypropane
CHLNAPH	ppb	2-chloronaphthalene
CHLNAPZ	ppb	Chlornaphazine
CHLPHEN	ppb	2-chlorophenol
CHRYSEN	ppb	Chrysene
CRESOLS	ppb	Cresols
CYCHDIN	ppb	2-cyclohexyl-4,6-dinitrophenol
DIBAEPY	ppb	Dibenzo[a,e]pyrene
DIBAHAC	ppb	Dibenz[a,h]acridine
DIBAHAN	ppb	Dibenz[a,h]anthracene

TABLE 1. (contd)

DIBAHPY	ppb	Dibenzo[a,h]pyrene
DIBAIPY	ppb	Dibenzo[a,i]pyrene
DIBAJAC	ppb	Dibenz[a,j]acridine
DIBCGCA	ppb	7H-dibenzo[c,g]carbazole
DIBPHTH	ppb	Di-n-butyl phthalate
DICHBEN	ppb	3,3'-dichlorobenzidine
DIEPHTH	ppb	Diethyl phthalate
DIHYSAF	ppb	Dihydrosafrole
DIMBENZ	ppb	7,12-dimethylbenz[a]anthracene
DIMEAMB	ppb	P-dimethylaminoazobenzene
DIMETHB	ppb	3,3'-dimethoxybenzidine
DIMEYLB	ppb	3,3'-dimethylbenzidine
DIMPAM	ppb	Alpha,alpha-dimethylphenethylamine
DIMPEN	ppb	2,4-dimethylphenol
DIMPHTH	ppb	Dimethyl phthalate
DINBENZ	ppb	Dinitrobenzene
DINCRES	ppb	4,6-dinitro-o-cresol and salts
DINPHEN	ppb	2,4-dinitrophenol
DIOPHTH	ppb	Di-n-octyl phthalate
DIPHAMI	ppb	Diphenylamine
DIPHHDY	ppb	1,2-diphenylhydrazine
DIPRNIT	ppb	Di-n-propylnitrosamine
ETHMETS	ppb	Ethyl methanesulfonate
ETHMINE	ppb	Ethyleneimine
FLUORAN	ppb	Fluoranthene
HEXAENE	ppb	Hexachloropropene
HEXCUT	ppb	Hexachlorobutadiene
HEXCCYC	ppb	Hexachlorocyclopentadiene
HEXCETH	ppb	Hexachloroethane
INDENOP	ppb	Indeno(1,2,3-cd)pyrene
ISOSOLE	ppb	Isosafrole
MALHYDR	ppb	Maleic hydrazide
MALOILE	ppb	Malononitrile
MELPHAL	ppb	Melphalan
METACTO	ppb	2-methyllactonitrile
METAZIR	ppb	2-methylaziridine
METBISC	ppb	4,4'-methylenebis(2-chloroaniline)
METCHAN	ppb	3-methylcholanthrene
METHAPY.	ppb	Methapyrilen
METHIOU	ppb	Methylthiouracil
METHNYL	ppb	Metholonyl
METMSUL	ppb	Methyl methanesulfonate
METPROP	ppb	2-methyl-2-(methylthio) propionaldehyde-
NAPHQUI	ppb	1,4-naphthoquinone
NICOTIN	ppb	Nicotinic acid
NITBENZ	ppb	Nitrobenzene
NITPHEN	ppb	4-nitrophenol
NITRANI	ppb	P-nitroaniline
NITRPYR	ppb	Nitrosopyrrolidine
NITRTOL	ppb	5-nitro-o-toluidine

TABLE 1. (contd)

NNIBUTY	ppb	N-nitrosodi-n-butylamine
NNIDIEA	ppb	N-nitrosodiethanolamine
NNIDIEY	ppb	N-nitrosodiethylamine
NNIDIME	ppb	N-nitrosodimethylamine
NNIMETH	ppb	N-nitrosomethyl ethylamine
NNIMORP	ppb	N-nitrosomorpholine
NNINICO	ppb	N-nitrosonornicotine
NNIPIPE	ppb	N-nitrosopiperidine
NNIURET	ppb	N-nitroso-N-methylurethane
NNIVINY	ppb	N-nitrosomethylvinylamine
OTOLHYD	ppb	O-tolidine hydrochloride
PBENZQU	ppb	P benzoquinone
PENTCHN	ppb	Pentachloronitrobenzene
PENTCHP	ppb	Pentachlorophenol
PHENINE	ppb	Phenylenediamine
PHENTIN	ppb	Phenacetin
PHTHEST	ppb	Phthalic acid esters
PICOLIN	ppb	2-picoline
PRONIDE	ppb	Pronamide
RESERPI	ppb	Reserpine
RESORCI	ppb	Resorcinol
SAFROL	ppb	Safrol
STRYCHN	ppb	Strychnine
SYMTRIN	ppb	Sym-trinitrobenzene
TETRCHP	ppb	2,3,4,6-tetrachlorophenol
THIONOX	ppb	Thiofanox
THIURAM	ppb	Thiuram
TOLUDIA	ppb	Toluenediamine
TRIPHOS	ppb	0,0,0-triethyl phosphorothioate
TRISPHO	ppb	Tris(2,3-dibromopropyl) phosphate
WARFRIN	ppb	Warfarin

Group: THIOE = Thiourea, enhanced

Name in Tables	Units	Full Name
ACETREA	ppb	1-acetyl-2-thiourea
CHLOREA	ppb	1-(o-chlorophenyl) thiourea
DIETRO	ppb	Diethylstilbestrol
ETHYREA	ppb	Ethylenethiourea
NAPHREA	ppb	1-naphthyl-2-thiourea
PHENREA	ppb	N-phenylthiourea
THIOURA	ppb	Thiourea

TABLE 1. (contd)

Group: U-ISO = Uranium Isotopes

Name in Tables	Units	Full Name
U 234	pCi/L	Uranium-234
U 235	pCi/L	Uranium-235
U 238	pCi/L	Uranium-238

Group: VOLORG = Volatile Organics

Name in Tables	Units	Full Name
1,1,1-T	ppb	1,1,1-trichloroethane
1,1,2-T	ppb	1,1,2-trichloroethane
CHLFORM	ppb	Chloroform
M-XYLE	ppb	Xylene-m
METHONE	ppb	Methyl ethyl ketone
METHYCH	ppb	Methylene chloride
OPXYLE	ppb	Xylene-o,p
PERCENE	ppb	Perchloroethylene
TETRANE	ppb	Tetrachloromethane (carbon tetrachloride)
TRICENE	ppb	Trichloroethylene (1,2-trichloroethene)

Group: VOLORGE = Volatile Organics, enhanced (VOLORG plus the following)

Name in Tables	Units	Full Name
1,1-DIC	ppb	1,1-dichloroethane
1,2-DIC	ppb	1,2-dichloroethane
1112-tc	ppb	1,1,1,2-tetrachloroethane
1122-tc	ppb	1,1,2,2-tetrachloroethane
123-trp	ppb	1,2,3-trichloropropane
ACROLIN	ppb	Acrolein
ACRYILE	ppb	Acrylonitrile
BENZENE	ppb	Benzene
BISTHER	ppb	Bis(chloromethyl) ether
BROMONE	ppb	Bromoacetone
BROMORM	ppb	Bromoform
CARBIDE	ppb	Carbon disulfide
CHLBENZ	ppb	Chlorobenzene
CHLTHER	ppb	2-chloroethyl vinyl ether
CHMTHER	ppb	Chloromethyl methyl ether
CROTONA	ppb	Crotonaldehyde
DIBRCHL	ppb	1,2-dibromo-3-chloropropane
DIBRETH	ppb	1,2-dibromoethane
DIBRMET	ppb	Dibromomethane
DIBUTEN	ppb	1,4-dichloro-2-butene
DICDIFM	ppb	Dichlorodifluoromethane
DICEETHY	ppb	1,1-dichloroethylene
DICPANE	ppb	1,2-dichloropropane

TABLE 1. (contd)

DICPENE	ppb	1,3-dichloropropene
DIETHY	ppb	Diethylarsine
DIOXANE	ppb	Dioxane
ETHMETH	ppb	Ethyl methacrylate
FORMALN	ppb	Formalin
HYDRSUL	ppb	Hydrogen sulfide
IODOMET	ppb	Iodomethane
METACRY	ppb	Methyl methacrylate
METHACR	ppb	Methacrylonitrile
METHBRO	ppb	Methyl bromide
METHCHL	ppb	Methyl chloride
METHTHI	ppb	Methanethiol
NNDIEHY	ppb	N,N-diethylhydrazine
PENTACH	ppb	Pentachloroethane
PYRIDIN	ppb	Pyridine
TOLUENE	ppb	Toluene
TRANDCE	ppb	Trans-1,2-dichloroethene
TRCMEOl	ppb	Trichloromethanethiol
TRCMFLM	ppb	Trichloromonofluoromethane
TRCPANE	ppb	Trichloropropane
VINYIDE	ppb	Vinyl chloride

TABLE 2. Analytical Plan for Site-Wide Chemical Monitoring Wells

TABLE 2. (contd)

WELL NAME	ALKALIN AMMONIU BETA CONDFLD CYANIDE DIRAQIN FARSENI FLEAD FMERCUR FSELENI GAMMA ICPMTF ICPMTFE IONS HYDRAZ LOALPHA PHFIELD PU-ISO RADIIUM SEMVOL SR 90 TC-99 TOC TOXDL TRITIUM U U-CHEM VOLORG
2-E26-3	X X X X X
2-E27-5	X X X X X
2-E28-7	X X X X X
2-E28-17	X X X X X
2-E28-21	X X X X X
2-E33-1	X X X X X
2-E33-2	X X X X X
2-E33-3	X X X X X
2-E33-5	X X X X X
2-E33-8	X X X X X
2-E33-10	X X X X X
2-E33-18	X X X X X
2-E33-21	X X X X X
2-E33-24	X X X X X
2-W6-1	X X X X X
2-W10-4	X X X X X
2-W10-8	X X X X X
2-W10-9	X X X X X
2-W12-1	X X X X X
2-W14-2	X X X X X
2-W14-5	X X X X X
2-W14-6	X X X X X
2-W15-4	X X X X X
2-W15-10	X X X X X
2-W15-11	X X X X X
2-W18-7	X
2-W19-1	X X X X X
2-W19-3	X X X X X
2-W19-5	X X X X X
2-W19-9	X X X X X
2-W19-11	X X X X X
2-W19-13	X X X X X
2-W19-15	X X X X X
2-W19-16	X X X X X
2-W22-12	X X X X X
2-W22-20	X X X X X
2-W22-22	X X X X X
2-W22-26	X X X X X
2-W23-1	X X X X X
2-W23-3	X X X X X
2-W23-7	X X X X X

TABLE 2. (contd)

TABLE 2. (contd)

	WELL NAME														
6-S6E14A	X	X	X	X											ALKALIN
6-S8-19	X	X	X	X	X	X	X	X	X	X	X	X	X	X	AMMONIU
6-S12-3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	BETA
6-S29-E12	X	X	X	X	X	X	X	X	X	X	X	X	X	X	CONDFLD
6-S31-1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	CYANIDE
															DIRAQIN
															FARSENI
															FLEAD
															FMERCUR
															FSELENI
															GAMMA
															ICPMTF
															ICPMTFE
															IONS
															LHYDRAZ
															LOALPHA
															PHFIELD
															PU-ISO
															RADIUM
															SEMVOL
															SR 90
															TC-99
															TOC
															TOXLDL
															TRITIUM
															U
															U-CHEM
															VOLORG

TABLE 3. Analytical Plan for Compliance Monitoring Wells

TABLE 3. (contd)

WELL NAME

X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-26-35C
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-26-35A
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-26-34
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-26-33
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-25-34B
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-25-34A
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-25-33A
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-25-34C
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-24-35
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-24-34C
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-24-34B
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-24-34A
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-23-34
X X	X X	X	X X X	X X	X X X	X X X	X X X	X X X X	X X X	X X	X X	6-S30E15A
X X	X X	X	X X X X X X X	X X X	X X X X X X X	X X X X X X X	X X X X X X X	X X X X X X X	X X X X X X X	X X X X X X X	X X X X X X X	6-S19-E13
X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	X X X X X X X X	3-8-2
X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	3-4-11
X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	3-4-7
X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	3-4-1
X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	X X X X X X	6-S19-E13
PCBS	PERCHLORATE	PERCHLORIC	PERCHLORATE	PERCHLORIC								
TDS	THALIUM	THALIUM										
TOC	TRIODE	TRIODE										
TOX	TOX											
U-CHEM	URANIUM	URANIUM										
VOLORG	VOLORG											

TABLE 3. (contd)

TABLE 4. Analytical Plan for Site-Wide Radiological (plus Nitrate) Monitoring Wells Not in the Site-Wide Chemical or Compliance Monitoring Networks

Well name	BETA	GAMMA	NITRATE	LOALPHA	PU-ISO	SR 90	TC-99	TRITIUM	U	U-CHEM	U-ISO
1-B4-2	X	X							X		
1-B4-3	X	X							X		
1-F5-4	X	X							X		X
1-N-2	X	X					X		X		
1-N-3	X						X		X		
1-N-4	X	X					X		X		
1-N-5	X	X					X		X		
1-N-15	X	X					X		X		
1-N-16	X	X					X		X		
1-N-18	X	X					X		X		
1-N-19	X	X					X		X		
1-N-20	X	X					X		X		
1-N-21	X	X					X		X		
1-N-22	X	X					X		X		
1-N-23	X	X					X		X		
1-N-25	X	X					X		X		
1-N-27	X	X					X		X		
1-N-30	X	X					X		X		
1-N-31	X	X					X		X		
1-N-32	X	X					X		X		
1-N-33	X	X					X		X		
1-N-36	X	X					X		X		
1-N-37	X	X					X		X		
1-N-39	X	X							X		
1-N-45	X	X					X		X		
1-N-49			X				X		X		
1-N-50			X				X		X		
1-N-51			X				X		X		
1-N-52			X				X		X		
2-E13-8	X	X									
2-E13-19	X										
2-E16-2	X	X	X	X	X		X		X		
2-E17-2	X	X	X	X	X				X		
2-E17-8	X	X	X	X	X				X		
2-E17-12	X	X	X	X	X		X		X		
2-E17-13	X	X	X	X	X		X		X		X
2-E23-2	X		X								
2-E24-1	X	X	X				X		X		
2-E24-2	X	X	X		X		X		X		
2-E24-4	X	X	X				X		X		
2-E24-11	X	X	X				X		X		
2-E24-13	X	X	X				X		X		
2-E25-3	X										
2-E25-6	X	X	X	X	X		X		X		
2-E25-9	X	X	X	X	X		X		X		
2-E25-11	X	X	X	X	X		X		X		

TABLE 4. (contd)

Well name	BETA	GAMMA	NITRATE	LOALPHA	PU-ISO	SR 90	TC-99	TRITIUM	U	U-CHEM	U-ISO
2-E25-13	X		X								
2-E25-17	X	X	X	X			X		X		
2-E25-19	X	X	X	X			X		X		
2-E25-23	X	X	X	X					X		
2-E25-24	X	X	X	X					X		
2-E26-2	X		X						X		
2-E26-4	X		X						X		
2-E26-6	X	X	X	X			X		X		
2-E26-8			X						X		
2-E27-7	X		X		X						
2-E28-9	X				X						X
2-E28-12	X	X							X		
2-E28-16	X				X						X
2-E28-18	X	X	X		X				X		
2-E28-23	X	X	X		X						X
2-E28-24	X	X			X						X
2-E28-25	X	X			X						X
2-E33-7	X	X						X			
2-E33-9	X	X	X					X		X	
2-E33-12		X	X			X		X		X	
2-E33-14		X	X			X		X		X	
2-E33-20	X	X	X			X		X		X	
2-E34-1	X	X			X						X
2-W10-1	X	X						X			
2-W11-11	X	X			X			X			
2-W11-18	X	X									
2-W11-23	X	X	X		X			X			
2-W11-24	X	X	X		X			X			
2-W14-10	X	X	X		X			X			
2-W15-6	X		X		X						X
2-W18-5	X				X						
2-W18-9	X		X		X						
2-W18-15	X	X	X		X				X		
2-W18-17	X	X			X						X
2-W18-18	X	X	X		X						X
2-W18-20	X	X	X		X						X
2-W19-2	X	X	X		X			X		X	
2-W19-12	X	X	X		X			X		X	
2-W19-17	X		X		X						X
2-W19-18	X		X		X						X
2-W19-19	X	X	X		X			X		X	
2-W19-20	X	X	X		X						X
2-W19-21	X	X	X		X			X		X	
2-W19-23	X	X	X		X			X		X	
2-W19-24	X	X	X		X			X		X	
2-W19-25	X	X	X		X			X		X	
2-W19-26	X	X	X		X			X		X	

TABLE 4. (contd)

Well name	BETA	GAMMA	NITRATE	LOALPHA	PU-ISO	SR 90	TC-99	TRITIUM	U	U-CHEM	U-ISO
2-W22-10	X	X			X			X			
2-W22-18	X	X			X			X			
2-W22-21	X		X	X						X	
2-W23-9	X	X			X			X		X	
2-W26-3	X		X		X				X	X	
2-W26-6	X	X	X		X			X	X		X
3-2-2		X	X						X	X	
3-2-3		X	X						X	X	
3-3-1		X	X						X	X	
3-3-2		X	X						X	X	
3-3-3		X	X						X	X	
3-3-6		X	X						X	X	
3-3-9		X	X				X		X	X	
3-3-11		X	X				X		X	X	
3-3-12		X	X				X		X	X	
3-4-9		X	X				X		X	X	
3-4-10		X	X				X		X	X	
3-5-1		X	X						X	X	
3-6-1		X	X						X	X	
3-8-1		X	X						X	X	
3-8-3		X	X						X	X	
3-8-4		X	X						X	X	
4-S0-7		X							X		
4-S0-8		X							X		
4-S1-7B			X						X		
4-S1-7C	X	X	X						X		
4-S1-8A	X	X	X						X		
4-S1-8B	X	X	X						X		
4-S1-8C		X							X		
6-1-18			X						X		
6-2-7			X						X		
6-3-45		X	X				X		X	X	
6-4-E6			X						X		
6-8-17		X	X						X		
6-8-32			X						X		
6-10-E12			X						X		
6-10-54A			X						X		
6-12-4B		X							X		
6-13-64			X						X		
6-14-E6T			X						X		
6-14-38			X						X		
6-14-47			X						X		
6-15-15B		X	X						X		
6-17-5		X	X						X		
6-17-47			X						X		
6-17-70			X						X		
6-19-43			X						X		
6-19-58			X						X		

TABLE 4. (contd)

Well name	BETA	GAMMA	NITRATE	LOALPHA	PU-ISO	SR 90	TC-99	TRITIUM	U	U-CHEM	U-ISO
6-19-88		X							X		
6-20-E5AP		X							X		
6-20-E5AQ		X							X		
6-20-E5AR		X							X		
6-20-E12		X							X		
6-20-E12P		X							X		
6-20-82		X							X		
6-21-6		X							X		
6-22-70		X							X		
6-24-1P		X							X		
6-24-1Q		X							X		
6-24-1R		X							X		
6-24-1S		X							X		
6-24-1T		X							X		
6-24-46		X							X		
6-25-55		X							X		
6-25-70		X							X		
6-26-15A	X	X							X		
6-26-89		X									
6-27-8	X	X							X		
6-28-40P	X	X							X		
6-28-52A	X	X							X		
6-29-78									X		
6-31-31	X	X							X		
6-31-31P	X	X							X		
6-32-62		X		X		X			X		
6-32-70B	X	X		X					X		
6-32-72	X	X	X		X				X		
6-32-77	X	X	X						X		
6-34-39A	X	X							X		
6-34-41B	X	X							X		
6-34-88			X						X		
6-35-66	X	X							X		
6-36-46P	X	X							X		
6-36-46Q	X	X							X		
6-36-61A			X								
6-36-61B			X						X		
6-37-E4	X	X							X		
6-37-43	X	X							X		
6-38-15	X	X							X		
6-38-70	X								X		
6-39-0	X	X							X		
6-39-39	X	X							X		
6-40-62			X						X		
6-41-1			X						X		
6-41-23	X	X							X		
6-42-2			X						X		

Well name	BETA	GAMMA	NITRATE	LOALPHA	PU-ISO	SR 90	TC-99	TRITIUM	U	U-CHEM	U-ISO
6-19-88		X							X		
6-20-E5AP		X							X		
6-20-E5AQ		X							X		
6-20-E5AR		X							X		
6-20-E12		X							X		
6-20-E12P		X							X		
6-20-82		X							X		
6-21-6		X							X		
6-22-70		X							X		
6-24-1P		X							X		
6-24-1Q		X							X		
6-24-1R		X							X		
6-24-1S		X							X		
6-24-1T		X							X		
6-24-46		X							X		
6-25-55		X							X		
6-25-70		X							X		
6-26-15A	X	X							X		
6-26-89		X									
6-27-8	X	X							X		
6-28-40P	X	X							X		
6-28-52A	X	X							X		
6-29-78									X		
6-31-31	X	X							X		
6-31-31P	X	X							X		
6-32-62		X		X		X			X		
6-32-70B	X	X		X					X		
6-32-72	X	X	X		X				X		
6-32-77	X	X	X						X		
6-34-39A	X	X							X		
6-34-41B	X	X							X		
6-34-88			X						X		
6-35-66	X	X							X		
6-36-46P	X	X							X		
6-36-46Q	X	X							X		
6-36-61A			X								
6-36-61B			X						X		
6-37-E4	X	X							X		
6-37-43	X	X							X		
6-38-15	X	X							X		
6-38-70	X								X		
6-39-0	X	X							X		
6-39-39	X	X							X		
6-40-62			X						X		
6-41-1			X						X		
6-41-23	X	X							X		
6-42-2			X						X		

TABLE 4. (contd)

Well name	BETA	GAMMA	NITRATE	LOALPHA	PU-ISO	SR 90	TC-99	TRITIUM	U	U-CHEM	U-ISO
6-42-12A		X	X			X		X	X	X	
6-42-40A	X	X	X		X		X		X		X
6-42-40B	X	X	X				X		X		
6-42-40C			X						X		
6-43-3			X						X		
6-44-4		X	X						X		
6-44-64		X	X						X		
6-45-2		X	X						X		
6-45-42		X	X						X		
6-46-4			X						X		
6-46-21B			X						X		
6-47-5		X	X				X		X	X	
6-47-35A			X						X		
6-47-46A			X						X		
6-47-50			X						X		
6-47-60		X	X						X		
6-49-13E			X						X		
6-49-28			X						X		
6-49-55A		X	X						X		
6-49-100C	X		X	X			X		X		
6-50-28B			X						X		
6-50-30			X						X		
6-50-42	X		X	X			X		X		
6-50-45			X						X		
6-50-48B			X						X		
6-50-85			X						X		
6-51-46			X						X		
6-51-63			X						X		
6-52-19			X						X		
6-52-46A			X						X		
6-52-48			X						X		
6-53-35			X						X		
6-53-47A	X	X			X			X			
6-53-47B	X	X			X			X			
6-53-48A	X	X			X			X			
6-53-48B	X	X		X	X			X			
6-53-50			X							X	
6-53-55A	X	X		X	X			X			
6-53-103			X							X	
6-54-34			X							X	
6-54-37A			X							X	
6-54-42			X							X	
6-54-48	X	X			X			X			
6-54-49	X				X			X			
6-54-57			X							X	
6-55-40			X							X	

TABLE 4. (contd)

Well name BETA GAMMA NITRATE LOALPHA PU-ISO SR 90 TC-99 TRITIUM U U-CHEM U-ISO

6-55-44		X			X
6-55-50A		X			X
6-55-50C	X	X	X	X	X
6-55-50D	X	X	X	X	X
6-55-70		X			X
6-55-76		X			
6-55-89		X			X
6-56-43		X			X
6-56-53		X			X
6-57-25A		X			X
6-57-29A		X			X
6-57-83A		X			
6-58-24		X			X
6-59-32		X			X
6-59-58	X	X	X	X	X
6-59-80B		X			
6-60-32		X			X
6-60-57		X			X
6-60-60		X			X
6-61-37		X			X
6-61-41		X			X
6-61-62		X			X
6-61-66		X			X
6-62-31		X			
6-62-43F		X			X
6-63-25A		X			X
6-63-51		X			X
6-63-55		X			X
6-63-58	X	X	X	X	X
6-63-90		X			X
6-64-27		X			X
6-64-62		X			X
6-65-50		X			X
6-65-59		X			X
6-65-72		X			X
6-65-83		X			X
6-66-23		X			
6-66-38		X			
6-66-39		X			
6-66-58		X			X
6-66-64		X			X
6-66-103		X			X
6-67-51		X			X
6-67-86		X			X
6-67-98		X			X

TABLE 4. (contd)

Well name	BETA	GAMMA	NITRATE	LOALPHA	PU-ISO	SR-90	TC-99	TRITIUM	U	U-CHEM	U-ISO
6-68-105		X							X		
6-69-38		X							X		
6-70-68		X							X		
6-71-30		X							X		
6-71-52		X							X		
6-71-77		X							X		
6-72-73		X							X		
6-72-88		X							X		
6-72-92		X							X		
6-73-61		X							X		
6-74-44		X							X		
6-77-36		X							X		
6-78-62		X									
6-80-43P		X									
6-80-43Q		X									
6-80-43R		X									
6-80-43S		X									
6-81-58		X							X		
6-84-35A0		X							X		
6-87-55		X							X		
6-96-49	X	X							X		
6-97-43	X	X							X		
6-97-51A		X							X		
6-101-48B		X							X		
6-S3-E12		X							X		
6-S6-E4B	X	X							X		X
6-S6-E4D	X	X							X		X
6-S7-34		X							X		
6-S11E12A		X							X		
6-S11E12AP		X							X		
6-S12-29		X							X		
6-S14-20A		X							X		
6-S18-51		X							X		
6-S19-11		X							X		
6-S24-19		X									
6-S27-E14		X						X			X
6-S28-E0	X	X	X				X		X		
6-S31-1P									X		

6-68-105		X							X		
6-69-38		X							X		
6-70-68		X							X		
6-71-30		X							X		
6-71-52		X							X		
6-71-77		X							X		
6-72-73		X							X		
6-72-88		X							X		
6-72-92		X							X		
6-73-61		X							X		
6-74-44		X							X		
6-77-36		X							X		
6-78-62		X									
6-80-43P		X									
6-80-43Q		X									
6-80-43R		X									
6-80-43S		X									
6-81-58		X							X		
6-84-35A0		X							X		
6-87-55		X							X		
6-96-49	X	X							X		
6-97-43	X	X							X		
6-97-51A		X							X		
6-101-48B		X							X		
6-S3-E12		X							X		
6-S6-E4B	X	X							X		X
6-S6-E4D	X	X							X		X
6-S7-34		X							X		
6-S11E12A		X							X		
6-S11E12AP		X							X		
6-S12-29		X							X		
6-S14-20A		X							X		
6-S18-51		X							X		
6-S19-11		X							X		
6-S24-19		X									
6-S27-E14		X						X			X
6-S28-E0	X	X	X				X		X		
6-S31-1P									X		

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RESULTS

Results of both PNL and WHC ground-water monitoring programs are discussed in this section. A historical perspective for all contaminants can be found in past environmental monitoring reports by PNL and the operating contractor (previously Rockwell Hanford Operations). The most recent reports are by PNL (1987) and Law, Serkowski, and Schatz (1987).

Because of their high concentrations, regulatory implications, or wide-spread distribution, the following contaminants in Hanford ground water have been identified for discussion here: 1) carbon tetrachloride in the 200 West Area; 2) cyanide in and north of the 200 East Area; 3) hexavalent chromium in the 100B, 100D, 100K, and 100H Areas; 4) chlorinated hydrocarbons near the Central Landfill; 5) uranium at the 216-U-1 and 216-U-2 cribs in the 200 West Area; 6) tritium across the site; and 7) nitrate across the site. The potential implications of several other observations are also discussed briefly. Although ground water is not used as a public drinking water supply, all results are discussed relative to the EPA drinking water standard (DWS) and to the DOE derived concentration guide (DCG), where appropriate (see Appendix B). Radionuclide concentrations in Hanford ground water are under administrative control by DOE Order 5480.1 which contains the DCGs. Table 5 lists estimated background levels for selected constituents in areas unaffected by Hanford Site operations.

CARBON TETRACHLORIDE IN THE 200 WEST AREA

Several wells have shown measurable concentrations of carbon tetrachloride (CCl_4) in the environs of the 200 West Area. The contamination has been detected beneath most of the 200 West Area, except for the southeast corner near the Reduction Oxidation Plant (REDOX) (Figure 6). The plume extends a short distance into the 600 Area on the east and west sides of the 200 West Area. The extent of spread to the north is not wide; however, a concentration of 220 ppb was found near the north fence line (in well 2-W6-1), so some spread beyond the fence is likely. For CCl_4 , the maximum concentration limit (MCL), or target concentration, for remediation under the Comprehensive Environmental Response, Compensation and Liability

**TABLE 5. Estimated Background Levels for Selected Constituents
in Hanford Ground Water**

<u>Constituent</u>	<u>Units</u>	<u>Detection Limit</u>	<u>Background Concentration</u>
Aluminum	ppb	150	< 150
Ammonia	ppb	50	60 ± 47
Arsenic	ppb	5	< 5
Barium	ppb	6	43 ± 21
Cadmium	ppb	2	< 2
Calcium	ppb	50	43,000 ± 14,000
Chloride	ppb	500	9,430 ± 5,530
Chromium	ppb	10	< 10
Copper	ppb	10	< 10
Cyanide	ppb	10	< 10
Fluoride	ppb	500	630 ± 240
Lead	ppb	5	< 5
Magnesium	ppb	10	11,700 ± 2,750
Manganese	ppb	5	16 ± 25
Mercury	ppb	0.1	< 0.1
Nickel	ppb	10	< 10
Phosphate	ppb	1000	< 1000
Potassium	ppb	100	5,835 ± 1,378
Selenium	ppb	5	< 5
Silver	ppb	10	< 10
Sodium	ppb	10	20,540 ± 6,690
Strontium	ppb	300	320 ± 86
Sulfate	ppb	500	40,100 ± 13,200
Vanadium	ppb	5	17 ± 7
Zinc	ppb	5	10 ± 11
Alkalinity	ppb	--	123,000 ± 21,000
pH		--	7.64 ± 0.16
TOC	ppb	200	586 ± 347
Conductivity	(μmho/cm)	1	380 ± 82
Gross Alpha	(pCi/L)	0.5	2.5 ± 1.4
Gross Beta	(pCi/L)	4	19 ± 12
Radium	(pCi/L)	0.2	< 0.2

Act (CERCLA) and the Superfund Amendments and Reauthorization Act (SARA) of 1986 is 5 ppb. A maximum concentration of 3,210 ppb (well 2-W15-11) was found near the Plutonium Finishing Plant (PFP) (Figure 6). Also, trichloroethylene was found in seven wells in the 200 West Area at concentrations ranging from 10 to 38 ppb. This species appears to be associated with the carbon tetrachloride plume.

The source of the CCl₄ is suspected to be past disposal of waste to the soil at the PFP. During operations that began in 1955 and extended through 1973, degraded solvents from various solvent extraction processes were disposed to the soil column. The primary carrier used in those solvent-extraction processes was CCl₄. The practice of disposing of solvent to the soil was discontinued in 1973. Current plant operation employs a method of treating and recycling in which degraded solvent is packaged in sorbent material and sent to a retrievable storage facility in the 200 West Area solid-waste burial ground.

Many of the soil column facilities (cribs) used by the PFP through 1973 received solvent material. Most of these facilities are near the inactive U Pond location. The flow of ground water in this area is radially outward from the ground-water mound that still exists beneath the U Pond location. This flow pattern may account for the distribution of contamination found beneath the 200 West Area.

No obvious, immediate public health implications are associated with the CCl₄ plume. The ground water in question is not currently a source of public drinking water and is not likely to become one in the foreseeable future. The edge of the plume is several kilometers from the Columbia River. Dispersion and dilution are likely to reduce the concentrations of CCl₄ significantly by the time they reach the river. Therefore, the long-term public health issue is associated primarily with eventual site abandonment, operational concerns, and associated regulatory considerations under CERCLA/SARA or the RCRA 3004(u) statute on continuing releases to the environment.

CYANIDE IN AND NORTH OF THE 200 EAST AREA

Sampling for chemicals in March 1987 included several 600-Area wells directly north of the 200 East Area. Cyanide was detected in two wells, 6-49-57 and 6-50-53. More extensive sampling during this quarter (April to June) confirmed those preliminary results. A third well, 2-E33-5, inside the 200 East Area was also found to be contaminated with cyanide. In addition, a field test taken during sampling by the DOE/HQ-EAT has indicated the presence of free cyanide in well 6-50-53, just north of the 200 East Area (Figure 2). The presence of cyanide was accompanied by corresponding increases in

cobalt-60 (^{60}Co) and gross beta activity in the ground water over a one-year period. Although ^{60}Co is normally relatively immobile in the Hanford subsurface environment, it appears to be chemically complexed and mobilized by cyanide. The maximum concentration of cyanide detected was 460 ppb. The extent of the contamination is currently limited to about 2.5 km^2 (1 mi^2); however, the exact extent of the plume is difficult to determine because there are few wells in the area. No fixed MCL or DWS for cyanide currently exists.

The cyanide distribution indicates a plume with its probable source at the BY Cribs (Figure 6). Cyanide is a waste product of the cesium precipitation processes that took place during uranium reclamation operations in the mid-1950s. The reagent used, nickel ferrocyanide, was added in excess of the stoichiometric ratio. The solids and liquids of the waste from this process were separated by cascading the supernate through a series of storage tanks. The supernatant liquor from the final tank was sent to a group of cribs, including the BY Cribs, BX Trenches, BC Cribs, and BC Trenches (Figure 6).

Unambiguous identification of free cyanide has not yet been made by either UST or PNL. The chemical analysis method employed by UST and DOE/HQ-EAT has been reported to be unresponsive to iron complexes of cyanide (USEPA 1982); however, a series of ferrocyanide and ferricyanide standards recently analyzed by UST showed quantitative recovery of the added complexed cyanide. The field test method was found to respond to ferricyanide, but not to ferrocyanide.

Although this was the first analysis of cyanide performed in the 600 Area, historical results for other contaminants indicate that a plume has moved into the area of well 6-50-53 within the last 18 months. Recent changes in waste-management practices, primarily increased liquid disposal to B Pond because of the restart of the Plutonium Uranium Extraction Plant (PUREX) operation (Figure 5), and decreased disposal to Gable Mountain Pond (Law, Serkowski, and Schatz 1987) (Figure 2), has caused some of the flow paths from beneath the 200 East Area to shift to the north.

No obvious, immediate public health hazards are associated with the cyanide plume. The ground water in the area is not currently a source of drinking water and is not likely to become a source in the foreseeable future. The edge of the plume is several kilometers from the Columbia River. Migration rates to the river are likely to be similar to those of other anionic species or tritium, and depend heavily on waste-management practices in the future. Dispersion and dilution should significantly reduce the cyanide concentration by the time the plume reaches the river. In addition, cyanide may be naturally oxidized to cyanate by bacterial or chemical oxidation. Therefore, long-term public health issues are associated primarily with eventual site abandonment and associated regulatory considerations under CERCLA/SARA or RCRA 3004(u).

HEXAVALENT CHROMIUM IN THE 100 AREAS

During operation of the production reactors in the 100 Areas, sodium dichromate was used to control oxidation of aluminum parts. Chromic acid was also used to decontaminate dummy fuel-elements. Disposal of these materials to a number of cribs and other liquid-disposal facilities has resulted in ground-water contamination throughout the 100 Areas. All wells in the 100H Area showed measurable concentrations of hexavalent chromium. In most cases, measurable concentrations were above the DWS of 50 ppb. The highest level of chromium contamination (1,690 ppb) was found in well 1-D5-12 in the 100D Area. Some chromium contamination was also observed in the 100K and 100B Areas. Although no chromium contamination was observed in the 100F Area, only a few wells have been sampled there. Chromium usage and waste disposal at the 100F Area were similar to those in the other 100 Areas. No chromium contamination has been observed in the 100N Area because the use of sodium dichromate was discontinued in the mid-1970s at the N Reactor.

The ground water affected by the chromium contamination is not currently used as a drinking-water supply. Chromium entering the Columbia River is rapidly diluted to insignificant levels. The primary public health issues for the ground water are eventual site abandonment and associated regulatory considerations under CERCLA/SARA or RCRA 3004(u).

CHLORINATED HYDROCARBONS NEAR THE CENTRAL LANDFILL

Ground-water monitoring conducted by PNL in March 1987 demonstrated the presence of measurable amounts (21 ppb) of 1,1,1-trichloroethane in well 6-24-33 located approximately 300 m (1000 ft) downgradient from the Hanford Site Central Landfill (Figure 2). As a result of that finding, volatile organic analyses were performed on samples from the recently completed compliance monitoring wells at the SWL and NRDW, which together comprise the Central Landfill. Several chlorinated hydrocarbons, of which 1,1,1-trichloroethane was the most abundant, were found in all six SWL wells; the highest concentration was 56 ppb. A trace of 1,1,1-trichloroethane was also found in the NRDW well closest to the SWL. Results were below detection limits in the other six NRDW wells. The areal distribution of the contaminants suggest that the SWL was the source. The SWL wells also contained lesser amounts of three other constituents: 1,1,2-trichloroethylene, 1,1-dichloroethane, and perchloroethylene. The relative proportions of the four components were approximately the same for those SWL wells with the highest concentrations and for well 6-24-33. A second set of samples taken in April 1987 confirmed these findings. The specific source of the contamination at the SWL is unknown; several possible sources are under investigation.

The ground water affected by the chlorinated hydrocarbon contamination is not currently used as a drinking-water supply. The levels found are relatively low and the extent of contamination limited. Public health concerns are minor because by the time the ground water reaches the Columbia River or other areas of water use, dispersion and dilution will have significantly reduced the concentrations. However, this contamination may impact the issuance of an operating permit for the SWL under solid-waste disposal regulations. The closed section of the SWL was operated before the current standards and applicable federal and state regulations were developed. Landfill operation as of May 1987 complied with all current federal and local requirements. The regulatory ramifications are unknown at this time.

URANIUM AT THE 216-U-1 AND 216-U-2 CRIBS IN THE 200 WEST AREA

Ground-water monitoring near the 216-U-1 and 216-U-2 cribs in February 1985 detected increases in uranium concentrations from 200 to 72,000 pCi/L and in nitrate concentrations from 6 to 1,500 ppm in the previous 2 months (Law, Serkowski, and Schatz 1987). The 216-U-1 and 216-U-2 cribs received an estimated 4,000 kg of uranium and 1.2 million kg of nitrate between 1952 and 1967. Perched water resulting from liquid discharges to the nearby 216-U-16 crib, which began receiving wastes in July 1984, provided the liquid that transported the uranium from the unsaturated zone beneath the 216-U-1 and 216-U-2 cribs to the water table (see Figure 6 for crib locations). Unsealed well casings and discontinuities in a confining layer are thought to have created a pathway for the uranium-contaminated liquid to reach the ground water. To prevent further contamination, three existing wells were grouted, and the disposal of waste water to the 216-U-16 crib was discontinued. From June to November 1985, ground water was pumped from an existing well and uranium was removed. The treatment reduced the uranium concentration in the pumping well from 72,000 to 17,000 pCi/L. Nitrates were not removed from the pumped water. Since November 1985, the uranium and nitrate concentrations have remained constant, although contamination continues to spread with general ground-water movement.

TRITIUM ACROSS THE SITE

Large amounts of tritium are released to the ground annually. For example, 7,040 Ci of tritium were released to the ground from 200 Area facilities during 1986 (Law, Serkowski, and Schatz 1987). Approximately 25 billion liters of liquid effluent were released to the ground in the same area during 1986 (PNL 1987).

Tritium Monitoring Results for 1986

Past monitoring results have shown that tritium is present in ground water, and it appears to be the most mobile radionuclide at the Hanford Site. As a result, tritium reflects the extent of contamination in the ground water from fuel production and reprocessing operations. A contour map of the 1986

distribution of average tritium concentrations in the unconfined aquifer, resulting from 40 years of Site operations, has been provided elsewhere (PNL 1987, Fig. 3.12).

Tritium Monitoring Results During April through June 1987

Tritium concentrations greater than the DWS of 20,000 pCi/L were detected in portions of the 100B, 100F, 100K, 100N, 200 East, 200 West, and 600 Areas.

As in the past, the highest tritium concentration within the 100 Areas was observed in well 1-K-30 (634,000 pCi/L). The concentrations in that well during the first half of 1987 were similar to those detected in 1986. Tritium concentrations in the 100F Area appear to be stabilizing or declining; concentrations in wells 1-F5-4 and 1-F8-1, which had risen above the DWS in 1986, decreased to concentrations below the DWS during this quarter. Only the concentration in well 1-B4-1 in the 100B Area (20,500 pCi/L) exceeded the DWS during the quarter.

Changes in the tritium distribution beneath the 100N Area (Figure 4) were evident, presumably a result of the shutdown of reactor operations in January. Tritium concentrations in all wells near the 1325N Liquid Waste Disposal Facility (LWDF) (Figure 4) and in most other 100N-Area wells decreased during the first half of 1987. The only wells that experienced significant increases in tritium concentrations were wells 1-N-2, 1-N-3, 1-N-4, 1-N-5, and 1-N-14 (Figure 9). In addition, samples collected in May from wells 1-N-49, 1-N-50, 1-N-51, and 1-N-52 contained relatively high tritium concentrations, between 50,000 and 200,000 pCi/L; no conclusions concerning changes in concentrations at these wells can be made, because they were sampled only once.

Continued movement of tritium plumes emanating from the 200 Areas may be inferred from variations in concentrations of tritium in the wells within those plumes. The widespread plume that extends from the southeast portion of the 200 East Area to the Columbia River continues to move slowly, i.e., over tens of years, toward the river. Tritium concentrations in wells near the center of the plume (e.g., wells 6-26-15A, 6-27-8, 6-31-31, and 6-32-22) continue to decrease (Figure 10), while concentrations in wells nearer the

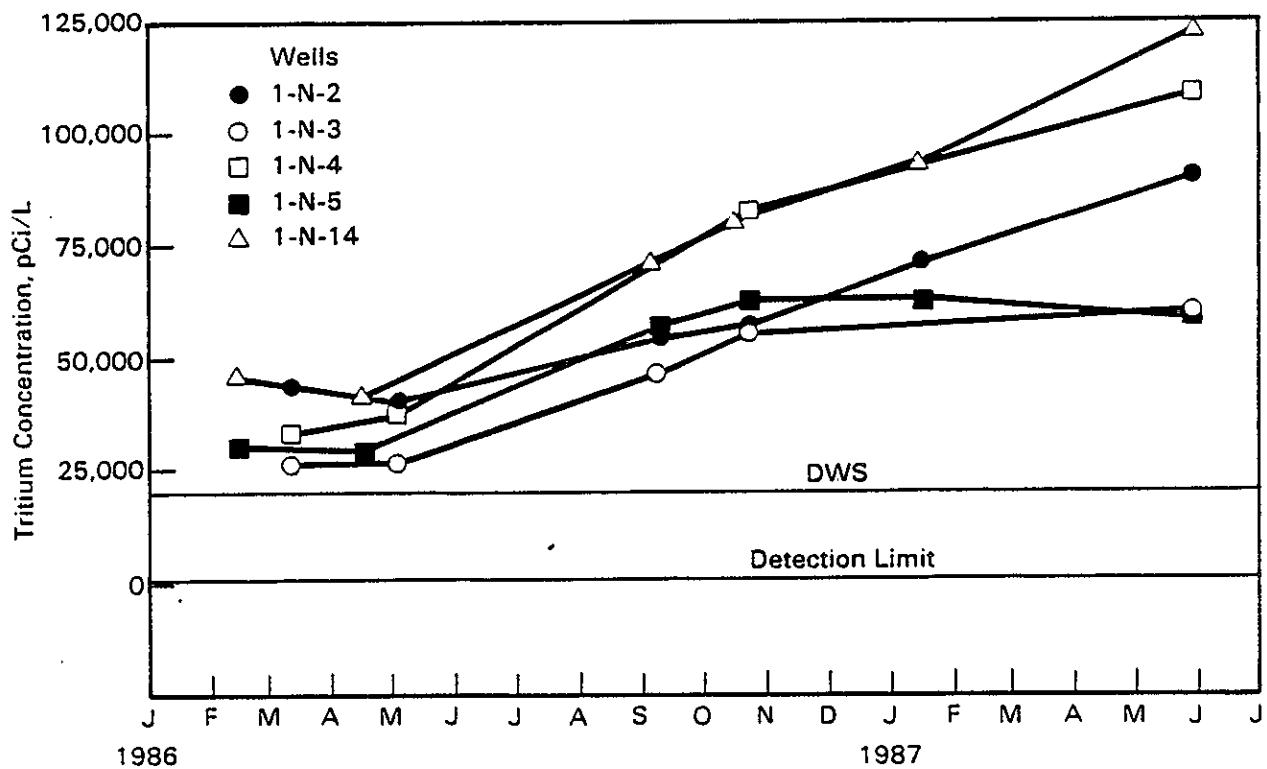


FIGURE 9. Tritium Concentrations in Wells 1-N-2, 1-N-3, 1-N-4, 1-N-5, and 1-N-14, in 1986 and the First Half of 1987

river (e.g., 6-29-4, 6-35-9, 6-39-0, and 6-40-1) remain at relatively high levels or continue to increase, ranging from about 140,000 to 240,000 pCi/L. In addition, this plume appears to be extending farther to the south. Tritium concentrations in wells 6-S3-E12, 6-S11-E12A, and 6-S19-E13 increased to concentrations of 5,140; 3,190; and 5,540 pCi/L from average concentrations of 4,400; 1,900; and 4,700 pCi/L, respectively in 1986.

Tritium concentrations in wells near several facilities receiving waste from PUREX and in some 600-Area wells downgradient from the plant suggest that a plume of increased concentration is emanating from the 200 East Area. Tritium concentrations greater than the DCG (2,000,000 pCi/L) are present in wells near the 216-A-10 and 216-A-37-1 cribs, which receive process condensate effluents from PUREX and the 242-A Evaporator, respectively. These wells include 2-E17-1, 2-E17-5, 2-E17-8, 2-E17-9, 2-E17-12, 2-E17-13, 2-E24-1 and 2-E24-2 near the 216-A-10 crib; and well 2-E25-19 near the 216-A-37-1

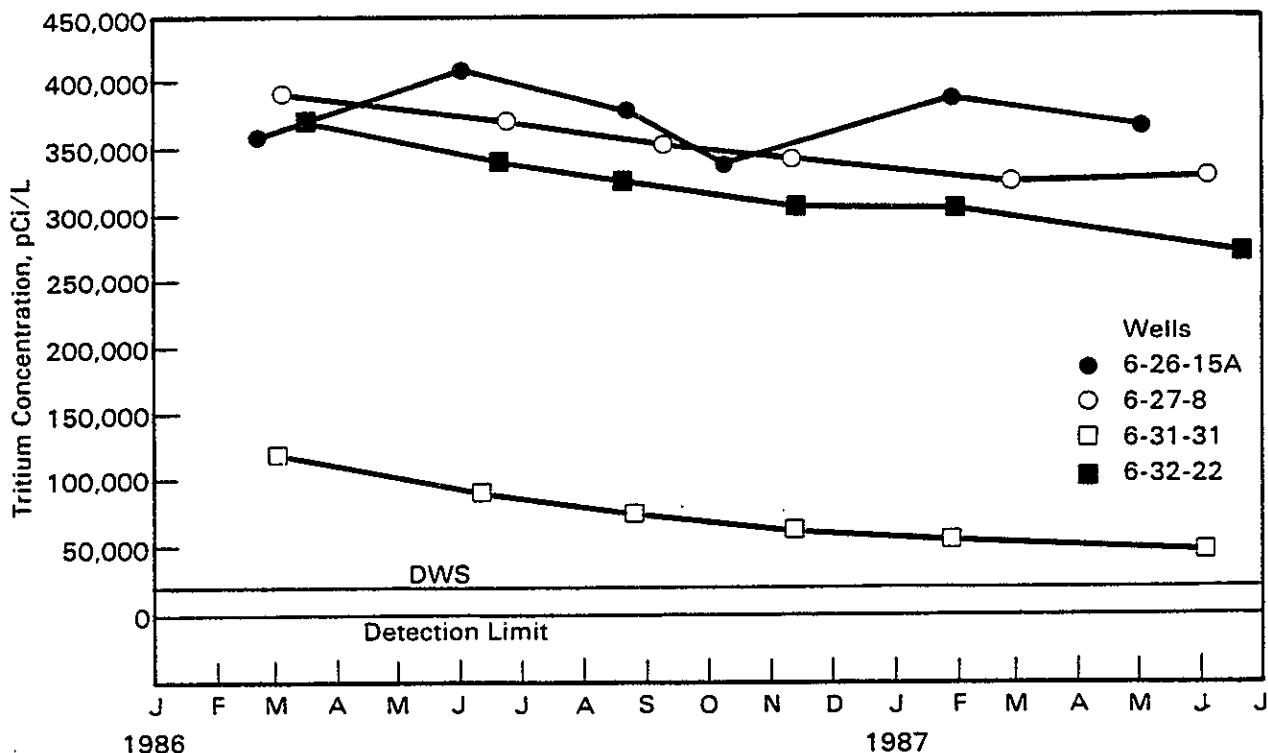


FIGURE 10. Tritium Concentrations in Wells 6-26-15A, 6-27-8, 6-31-31, and 6-32-22, in 1986 and the First Half of 1987

crib (Figure 5). Concentrations in wells near the 216-A-10 crib ranged from less than the DCG to 11,300,000 pCi/L (at well 2-E24-1) during the quarter. Well 2-E25-19 near the 216-A-37-1 crib had a maximum concentration of 6,560,000 pCi/L. These increases in tritium were expected (U.S. DOE 1983).

Tritium concentrations in downgradient wells 6-32-43 (sampled last quarter) and 6-33-42 have been increasing since mid-1986, up to 259,000 and 280,000 pCi/L, respectively, this quarter. Tritium concentrations in nearby wells 6-34-42 and 6-34-41B have recently increased several thousand pCi/L to 88,500 and 56,100 pCi/L, respectively. Because only two wells (6-36-46P and 6-36-46Q, which are completed in a deeper aquifer) exist in the unconfined aquifer between these four wells and the 200 East Area, migration of this plume towards the southeast may be undetected.

The tritium plume that emanated from REDOX in the southeast corner of the 200 West Area (Figure 6) continues to spread slowly northward. This

movement is demonstrated by the apparent increase in tritium concentrations in well 6-40-62, from 62,800 pCi/L (last quarter) to 65,100 pCi/L, and by the continued decrease in concentrations in well 6-35-70, from 1,440,000 pCi/L (last quarter) to 1,330,000 pCi/L. Tritium concentrations in well 2-W22-9 appear to be decreasing slowly, indicating that the small area of tritium concentrations greater than the DCG (2,000,000 pCi/L) within this plume may be moving away from the 200 West Area. An additional area of relatively high concentrations of tritium is present near the 216-S-25 crib in the southwest corner of the 200 West Area, as indicated by the concentrations in wells 2-W23-9 and 2-W23-10, which remain well above the DWS (20,000 pCi/L).

Northward movement of the tritium plume in the northern portion of the 200 West Area is indicated by the continued increase in concentrations in well 2-W6-1, to over 52,000 pCi/L, and the concurrent decrease in concentrations in wells 2-W10-5, 2-W14-2, 2-W14-5, 2-W14-6, and 2-W15-4.

Tritium concentrations within the plume between Gable Butte and Gable Mountain at wells 6-60-60, 6-61-62, 6-64-62, and 6-66-64 (Figure 2) continue to increase slowly, ranging from 6,000 to 8,000 pCi/L. In addition, wells 6-65-72, 6-71-77, and 6-72-73, which lie between this plume and the Columbia River to the northwest, are displaying increased tritium concentrations, between 3,000 and 4,000 pCi/L. Whether these increases are related to this tritium plume or possibly to plumes emanating from facilities in other locations is unknown. Tritium may be emanating from retired fuel storage basins north of the 200 Areas or past disposal sites near the 100B Area. Additional monitoring wells may be needed in this area to answer these questions.

NITRATE ACROSS THE SITE

The EPA does not consider nitrate to be a hazardous substance under CERCLA scoring for Superfund remedial action because so many nonoperational sources of nitrate exist across the country (e.g., agricultural, nonpoint sources). Nitrate contamination is a concern at Hanford, however, because of its source (Hanford operations) and wide distribution.

Nitrate is associated with process condensate and other liquid wastes discharged to the ground (PNL 1987). The extent of nitrate contamination in

the unconfined aquifer reflects the extensive use of nitric acid in chemical reprocessing and decontamination operations.

Nitrate Monitoring Results for 1986

PNL (1987) has reported that nitrate plumes are shaped differently from the tritium plumes, primarily because nitrate concentrations are not reduced with time by radioactive decay, as are tritium concentrations. A contour map of 1986 average nitrate concentrations in the unconfined aquifer has been presented by PNL (1987). The nitrate plumes are also derived from a variety of sources, both natural and manmade. As a result, nitrate is not as easily traced back to isolated sources.

Nitrate Monitoring Results During April through June 1987

Nitrate is analyzed for most wells in all monitoring networks and was measured at concentrations greater than the DWS [45 ppm(a) as nitrate ion] in wells in all of the 100 Areas, except for the 100B Area, and in the 200 Areas.

Nitrate concentrations in 100D Area wells were similar to 1986 levels. Wells 1-D2-5 and 1-D5-12, with average concentrations of 88.7 and 73.4 ppm, respectively, remained above the DWS.

Three of the wells sampled in the 100F area remained above the DWS. Concentrations in well 1-F8-1 continued to increase, reaching a concentration of 191 ppm in June. Concentrations in wells 1-F7-1 and 1-F8-2 averaged 88 and 99 ppm, respectively. Well 1-F5-4 showed a concentration of 52.5 ppm.

Wells 1-K-11, 1-K-19, and 1-K-30 in the 100K Area contained nitrate in concentrations above the DWS. Concentrations averaged 50, 60, and 55 ppm, respectively.

Nitrate concentrations greater than the DWS were measured in six 100H Area wells: 1-H3-1, 1-H4-3, 1-H4-4, 1-H4-9, 1-H4-12A, and 1-H4-12B (Figures 11 and 12). All but well 1-H3-1 are located between the 183-H Solar Evaporation Basins (Figure 3) and the Columbia River. Nitrate concentrations in well 1-H4-3 have declined slightly from 1986 levels, while those in

(a) ppm = ppb/1000.

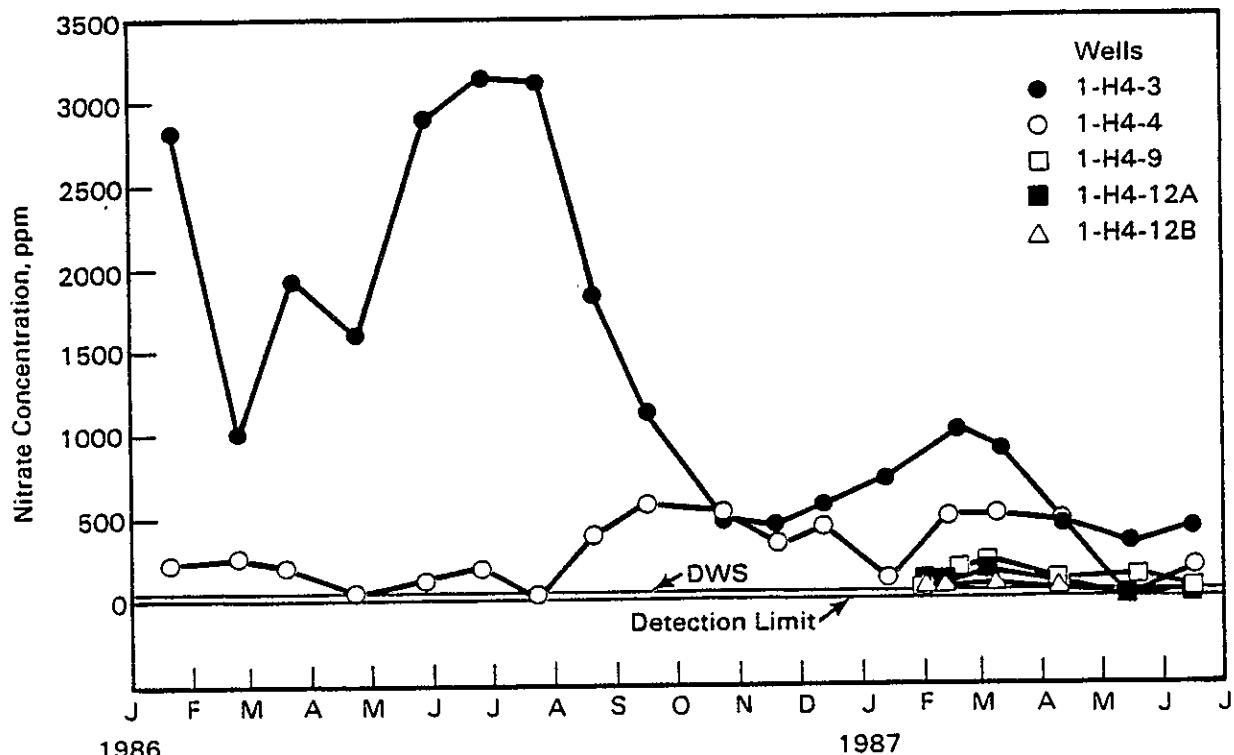


FIGURE 11. Nitrate Concentrations in Wells 1-H4-4, 1-H4-9, 1-H4-12A, and 1-H4-12B, in 1986 and the First Half of 1987

wells 1-H3-1 and 1-H4-4 are relatively unchanged. Concentrations of nitrate in well 1-H4-9 were relatively constant at levels above the DWS. Although nitrate concentrations in wells 1-H4-12A and 1-H4-12B were above the DWS in early 1987, the concentrations measured in May and June were slightly below the DWS.

In general, nitrate concentrations in most 100N-Area wells have declined since January. However, concentrations in wells 1-N-14, 1-N-23, 1-N-36, 1-N-37, and 1-N-45 have increased in 1987, with concentrations greater than the DWS for wells 1-N-36, 1-N-37, and 1-N-45 (Figure 13). Wells 1-N-5, 1-N-7, 1-N-27, 1-N-30, 1-N-31, 1-N-32, and 1-N-39 had previously contained nitrate in concentrations above the DWS but fell below that level in this quarter.

The highest concentrations of nitrate in the 200 East Area are found in wells in the southeast corner, near PUREX. In general, the wells that

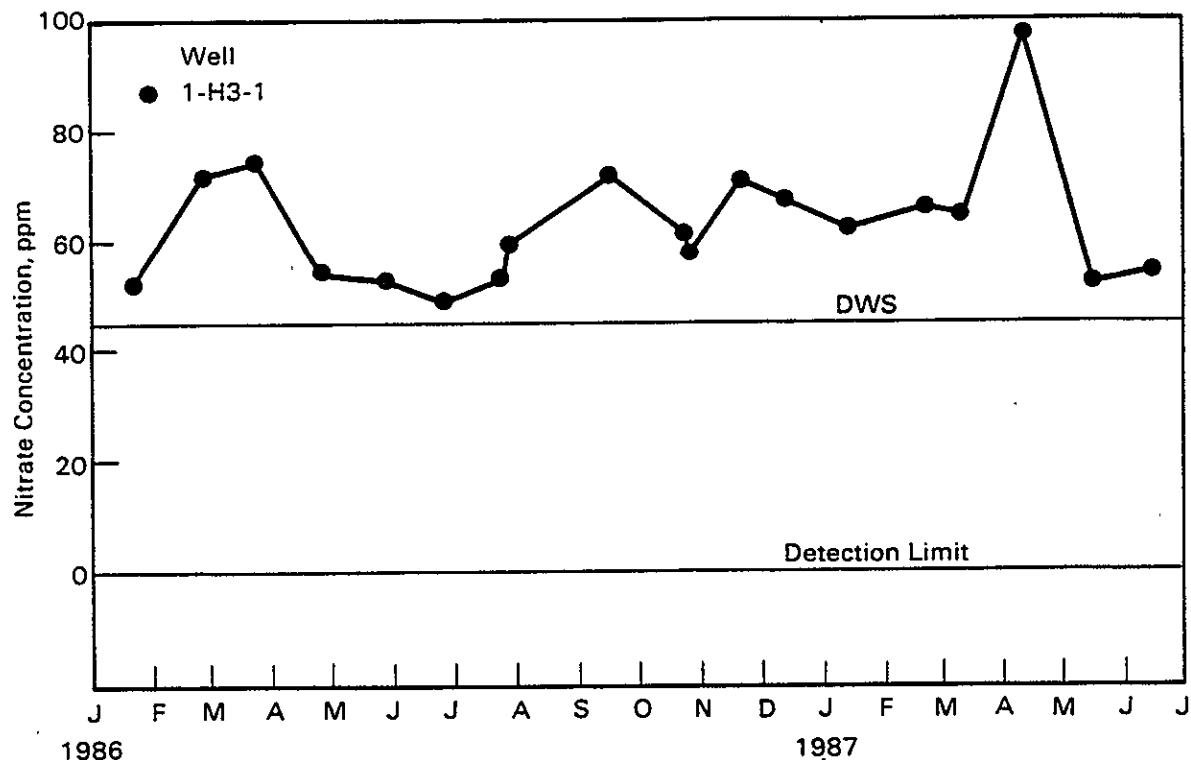


FIGURE 12. Nitrate Concentrations in Well 1-H3-1, in 1986 and the First Half of 1987

contain the highest concentrations of nitrate also contain the highest tritium concentrations (wells 2-E17-1, 2-E17-2, 2-E17-8, 2-E17-9, 2-E24-1, 2-E24-2, 2-E24-11, 2-E25-13, 2-E25-19, and 2-E25-20). These wells are located near cribs 216-A-10 and 216-A-37-1 (Figure 5), which receive process condensate effluent from PUREX and the 242-A evaporator, respectively. The maximum nitrate concentration measured in the 200 East Area was in well 2-E24-1 (555 ppm). Concentrations of nitrate in nearby wells 6-32-43, 6-33-42, and 6-37-43 are increasing, yet still below the DWS (Figure 14). A similar increase in tritium concentrations in those wells has been noted, and a nitrate plume as well as a tritium plume may be emanating from the southeast portion of the 200 East Area. Well 2-E28-18 in the northwest portion of the 200 East Area continues to contain nitrate in concentrations greater than the DWS, with an average concentration of 59 ppm. Concentrations in wells 6-49-55A and 6-50-53, located just north of the 200E Area, have continued to increase to concentrations of 198 and 346 ppm, respectively.

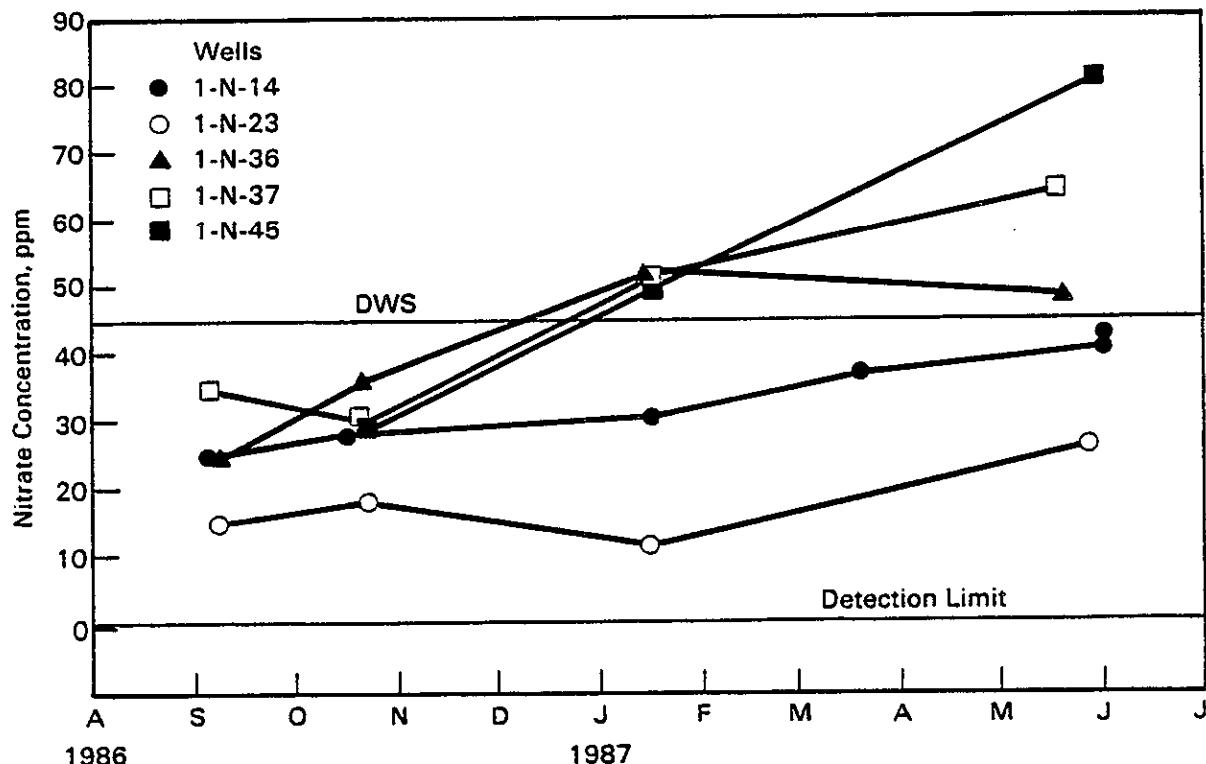


FIGURE 13. Nitrate Concentrations in Wells 1-N-14, 1-N-23, 1-N-36, 1-N-37, and 1-N-45, August 1986 Through June 1987

The highest levels of nitrate detected in the 200 West Area are concentrated in two general areas: near the U plant and between the T Plant and the Z Plant. Nitrate concentrations above the DWS are found in wells in the area surrounding the U Plant (i.e., wells with the "2-W19" prefix) (Figure 6). Wells 2-W19-19, 2-W19-20, and 2-W19-24 contained the highest nitrate levels detected on the Hanford Site during the first half of 1987, with average concentrations of 1,460; 1,060; and 1,270 ppm, respectively. Wells 2-W19-2, 2-W19-23, 2-W19-25, and 2-W19-26 in the same area also contained nitrate concentrations at least 100 times greater than the DWS.

Wells in the northwest portion of the 200 West Area also contained nitrate in concentrations above the DWS. These wells (2-W10-4, 2-W11-23, 2-W11-24, 2-W14-5, and 2-W15-4; Figure 6) are located in an area between the T Plant and the Z Plant. Concentrations in that area ranged from 83 ppm in well 2-W14-10 to 680 ppm in well 2-W15-4.

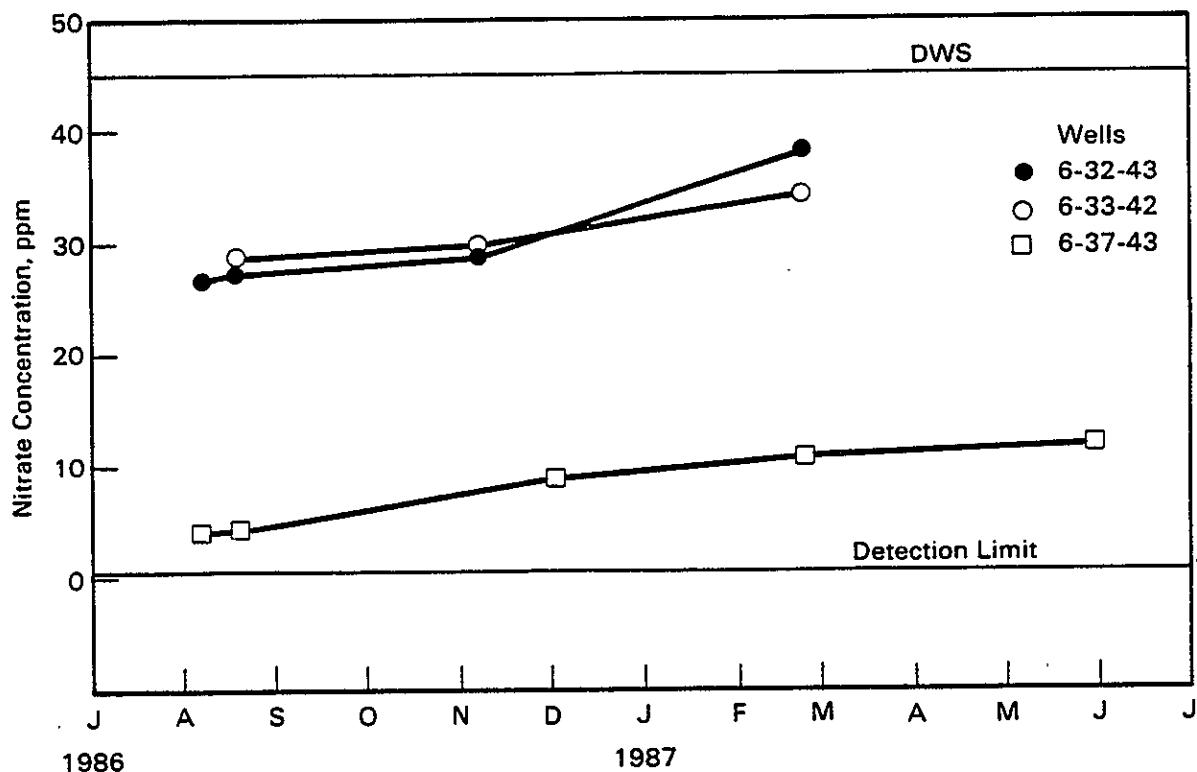


FIGURE 14. Nitrate Concentrations in Wells 6-32-43, 6-33-42, and 6-37-43, July 1986 Through June 1987

Other 200-West-Area wells (2-W6-1, 2-W10-9, 2-W12-1, 2-W14-2, 2-W15-10, 2-W15-11, 2-W22-20, and 2-W27-1) contained nitrate concentrations greater than the DWS, ranging from 102 to 350 ppm.

Nitrate concentrations in 300-Area wells remained at levels equal to or less than those measured in 1986. The only 300-Area well with nitrate concentrations greater than the DWS was 3-5-1, with a concentration of 45.7 ppm, which is relatively unchanged from 1986 concentrations.

Nitrate concentrations in wells in the 400 Area (Figure 2) and most of the 600 Area were similar to those measured in 1986. Nitrate in well 6-17-70, which was above the DWS in 1986, declined to below that level. Nitrate concentrations in the large plume located between the 200 East Area and the Columbia River remained relatively unchanged from those reported for

1986. Wells in the 600 Area not already mentioned that showed concentrations above the DWS, ranging from 47 to 147 ppm, include 6-17-5, 6-38-15, 6-38-65, 6-44-64, 6-49-57, and 6-77-36.

OTHER OBSERVATIONS

Several other chemical and radiological species detected at levels that may be related to Hanford Site operations are discussed below. The order in which contamination issues are listed is arbitrary. The conclusions are tentative in some cases. However, they are included here because the potential exists for some of these constituents to develop into future issues of concern.

Acetone

Acetone has been detected in seven wells distributed widely across the site. No discernible pattern exists. The acetone may be some type of contamination during sampling or laboratory analysis.

Ammonia

Twenty-nine wells show evidence of ammonia. Ammonia and ammonium salts have been used in a variety of applications on the site. Two monitoring locations are worth noting because both are in operating areas. Wells 1-N-28 and 1-N-29 in the 100N Area have ammonia levels of 1,470 ppb and 3,630 ppb, respectively. The same two wells also showed detectable levels of phosphate. The materials detected probably derived from a decontamination solution containing ammonium phosphate. Wells 2-E28-18 and 2-E28-21 in the 200 East Area show maximum ammonia levels of 890 ppb and 234 ppb, respectively. Both are near crib 216-B-62, which has received ammoniacal PUREX process condensate from B Plant. Ammonia is also used in the process to remove the zirconium alloy cladding from fuel for the N Reactor.

Hexavalent Chromium in the 200 West and 600 Areas

Some evidence of chromium contamination is evident in three wells near the T Plant and in two wells in the Z Plant Area of the 200 West Area (Figure 6). The source of the contamination is believed to be decontamination waste shipped from the 300 Area. Chromium was also detected in

well 6-83-47 (45 ppb). That well, which is located near the 100 Areas cannot be tied to any known sources of chromium contamination.

Fluoride

A number of closely spaced wells in the 200 West Area show elevated levels of fluoride, ranging up to 12,500 ppb in well 2-W15-4. These wells are downgradient of the 216-Z-9 crib, which has received an estimated 210 metric tons of aluminum fluoride nitrate since operations at the Hanford Site began.(a)

Chlorinated Hydrocarbons near the 300 Area

Several chlorinated hydrocarbons, including 1,2-dichloroethylene and trichloroethylene, have been detected in samples taken from three wells down-gradient of the 300 Area process trenches (Figure 7).

Methyl Ethyl Ketone

Methyl ethyl ketone was detected in one well (2-E13-5) at a maximum level of 50 ppb. The significance of the observation is unknown; however, the species has been detected twice in the same well.

Methylene Chloride

Methylene chloride has been detected occasionally but rarely in the same well twice. Therefore, its appearance is probably associated with laboratory contamination, a well-known problem with that species because of its volatile nature combined with its wide use in laboratory chemical extraction.

N-nitroso-dimethylamine

Well 2-15-4 showed positive indications of N-nitroso-dimethylamine. It is not known whether this species exists in the ground water or is laboratory contamination.

Selenium

On two successive measurements, selenium was detected in well 2-W27-1 at levels five times as great as the DWS (10 ppb). No explanation can

(a) U.S. Department of Energy, 1986, "Draft Phase I Installation Assessment of Inactive Waste Disposal at Hanford," Richland, Washington.

be given for the finding because no use of selenium at the Hanford Site has been documented.

Total Organic Halogens

A number of wells in the 100 Areas showed the presence of total organic halogens not accompanied by corresponding chlorinated hydrocarbons. This anomaly requires further investigation.

Cyanide in the 200 West Area

Cyanide has been detected in two wells in the 200 West Area (2-W12-1 at 34 ppb and 2-W18-7 at 15 ppb). These wells are adjacent to several trenches that also received ferrocyanide wastes.

Gross Alpha Activity, Uranium, and Plutonium

Levels of gross alpha activity were elevated in wells in several areas. Site-wide radiological monitoring results showed levels generally consistent with those reported for 1986 (PNL 1987). Alpha analyses newly added to site-wide chemical and RCRA-compliance monitoring provided information for areas not previously monitored for alpha. The DWS for alpha is 15 pCi/L, not including uranium. Several wells in and around the 200 Areas had gross alpha activity greater than the DWS. Wells in the 200 East Area with average gross alpha concentrations greater than the DWS included 2-E28-18 (64.4 pCi/L), 2-E28-21 (49.2 pCi/L), and 2-E28-23 (48.5 pCi/L). However, these wells contained uranium in concentrations of 80, 73, and 42.1 ppb,(a) respectively, which may account for the gross alpha levels measured. The DCG for uranium-234 is 500 pCi/L. In March, plutonium-239 and plutonium-240 ($^{239,240}\text{Pu}$) were also detected in well 2-E28-23 at a concentration of 12.8 pCi/L and account for part of the gross alpha activity in that well. Smith (1980) has reported that plutonium was injected into the 216-B-5 reverse well during 1945 to 1947. The DCG for $^{239,240}\text{Pu}$ is 300 pCi/L.

The highest levels of gross alpha activity were found in wells 2-W19-3, 2-W19-9, 2-W19-11, 2-W19-15, 2-W19-16, 2-W19-17, and 2-W19-18 in the 200 West Area, which are associated with the uranium plume from the 216-U-1 and

(a) The conversion factor from ppb uranium to pCi/L uranium is approximately 0.679 (Law, Serkowski, and Schatz 1987).

216-U-2 cribs, described earlier, and in wells 2-W19-19, 2-W19-23, 2-W19-24, 2-W19-25, and 2-W19-26, which are near an effluent line to the inactive 216-U-8 crib and the active 216-U-12 crib. All of these wells contained uranium at levels that would account for the gross alpha activity measurements. (Plutonium was not detected in these wells.) Both the gross alpha activity and the uranium concentrations in most of these wells continue to decrease slightly during 1987 (Figures 15 through 18).

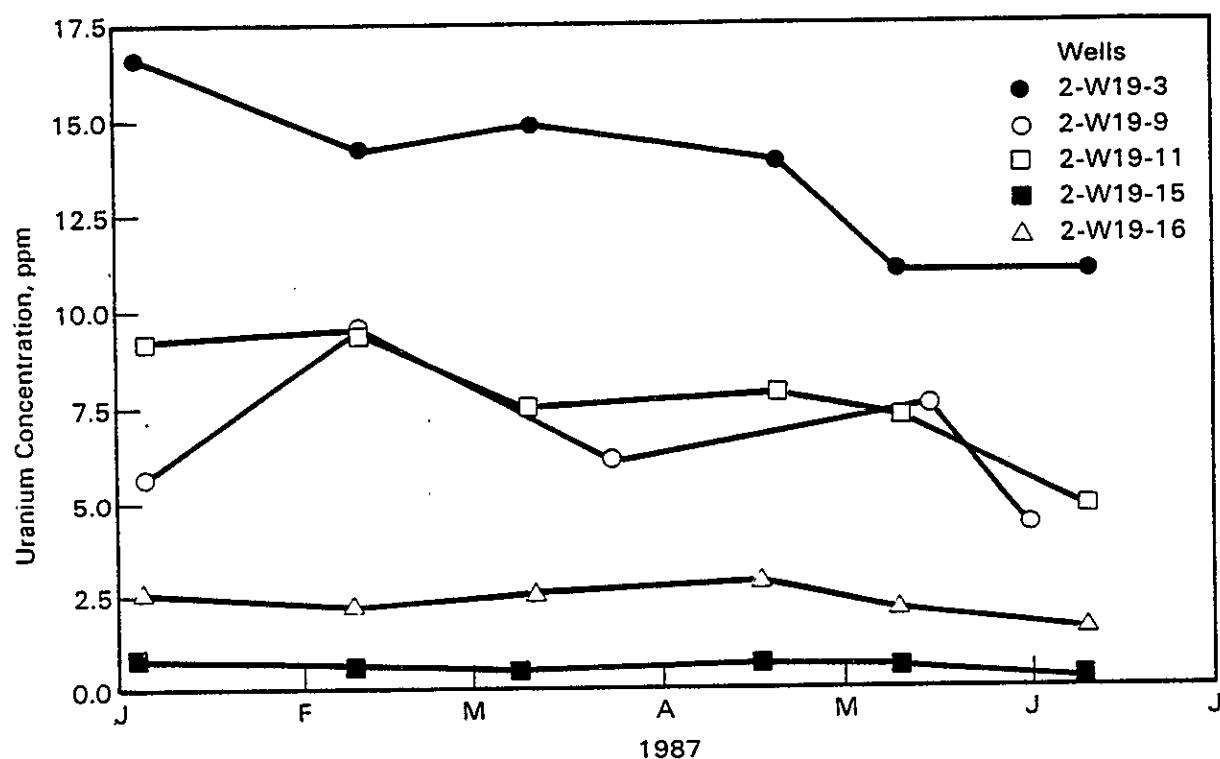


FIGURE 15. Uranium Concentrations in Wells 2-W19-3, 2-W19-9, 2-W19-11, 2-W19-15, and 2-W19-16 for the First Half of 1987

Uranium concentrations in the 100F, 100H, 100K, and 300 Areas were similar to those measured in 1986. Uranium in well 1-F8-1 in the 100F Area has increased steadily since January (Figure 19). Uranium concentrations in wells 3-1-4 and 3-1-5 also increased in early 1987. In samples taken in April, uranium concentrations remained relatively high in well 3-1-5 (58.2 pCi/L) but had begun to decline in well 3-1-4, from 36 pCi/L in January 1987 to 23.2 pCi/L. Several other isolated elevated gross alpha measurements are noteworthy. These include wells 2-E24-12 (17 pCi/L), 2-E28-18 (34 pCi/L), 2-E28-21 (54 pCi/L), and 6-S12-3 (63 pCi/L). Wells 2-E28-18 and 2-E28-21 are near the 218-B-62 crib (Figure 5), and also show associated uranium concentrations. Well 6-S12-3 is located in an isolated part of the

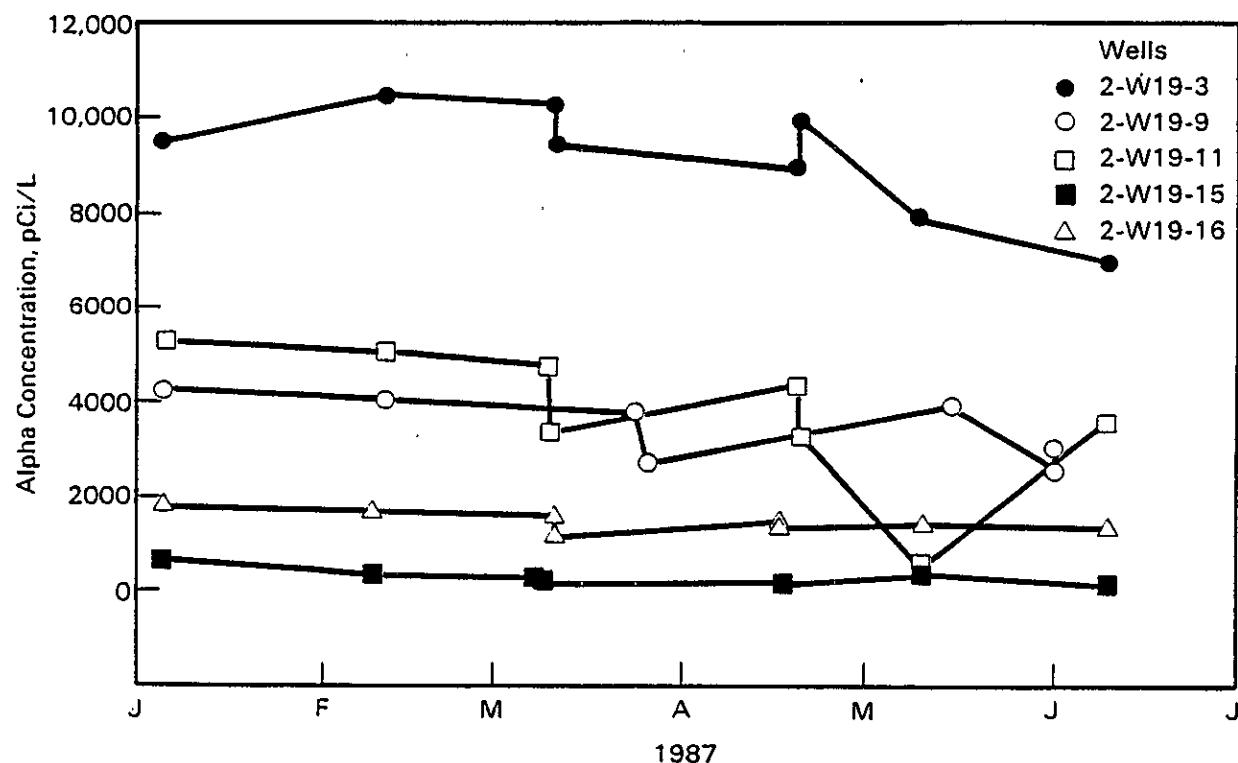


FIGURE 16. Alpha Concentrations in Wells 2-W19-3, 2-W19-9, 2-W19-11, 2-W19-15, and 2-W19-16 for the First Half of 1987

600 Area approximately halfway between the Fast Flux Test Facility (FFTF) and the 300 Area (Figure 2). The origin of the high gross alpha level in this well is not obvious and is a matter of concern.

Gross Beta Activity

Gross beta activity in most wells except for the 200 East Area was similar to or less than that measured in 1986. Several wells in the 200 Areas and the surrounding 600 Area continued to have gross beta activity greater than the DWS (50 pCi/L). Activity in wells 2-E13-19, 2-E17-6, and 2-E24-1 in the 200 East Area had previously been below the DWS and rose above that limit during the first half of 1987. The maximum levels observed in those three wells were 63.1 pCi/L, 87.1 pCi/L, and 62.3 pCi/L, respectively. Activity in wells 2-W14-2 and 2-W19-2 in the 200 West Area also rose above the DWS with maximum concentrations of 106 pCi/L and 69.8 pCi/L, respectively.

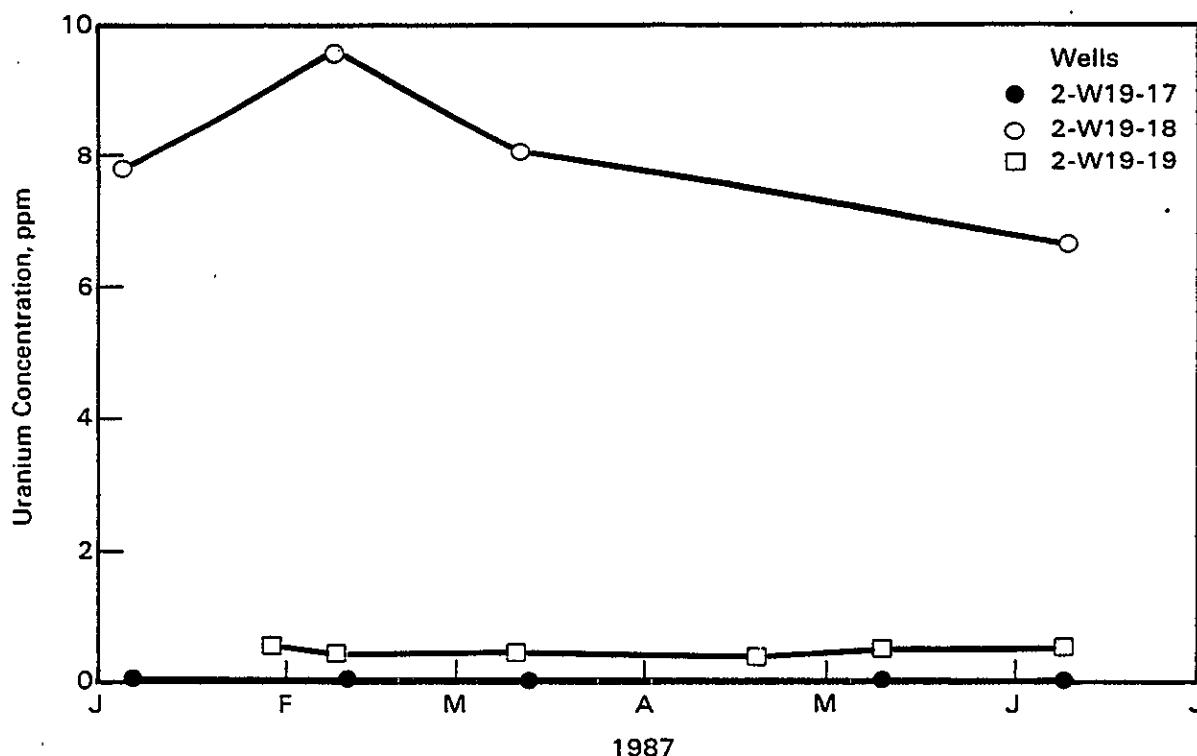


FIGURE 17. Uranium Concentrations in Wells 2-W19-17, 2-W19-18, and 2-W19-19 for the First Half of 1987

Gross beta activity remained above or had risen above the DWS in several wells near Gable Mountain Pond (wells 6-53-47A, 6-53-47B, 6-53-48B, 6-54-48, and 6-54-49) (Figure 2), ranging from 94 to 531 pCi/L. These wells contain strontium-90 (^{90}Sr) in concentrations above the DWS (8 pCi/L), which would account for most of the gross beta activity measured. Strontium-90 concentrations have increased in three of these wells (6-53-48B, 6-54-48, and 6-54-49) in the recent past (Figure 20). The gross beta activity in well 6-40-1 near the Columbia River measured 64.9 pCi/L; this well will be analyzed for ^{90}Sr in the future. Two wells north of the 200 East Area showed gross beta activity levels of 174 pCi/L (6-49-57) and 1,240 pCi/L (6-50-53); ^{90}Sr was not measured in these wells. Gamma scans revealed ^{60}Co concentrations of 25.2 and 275 pCi/L, respectively. The DCG for ^{60}Co is 5,000 pCi/L.

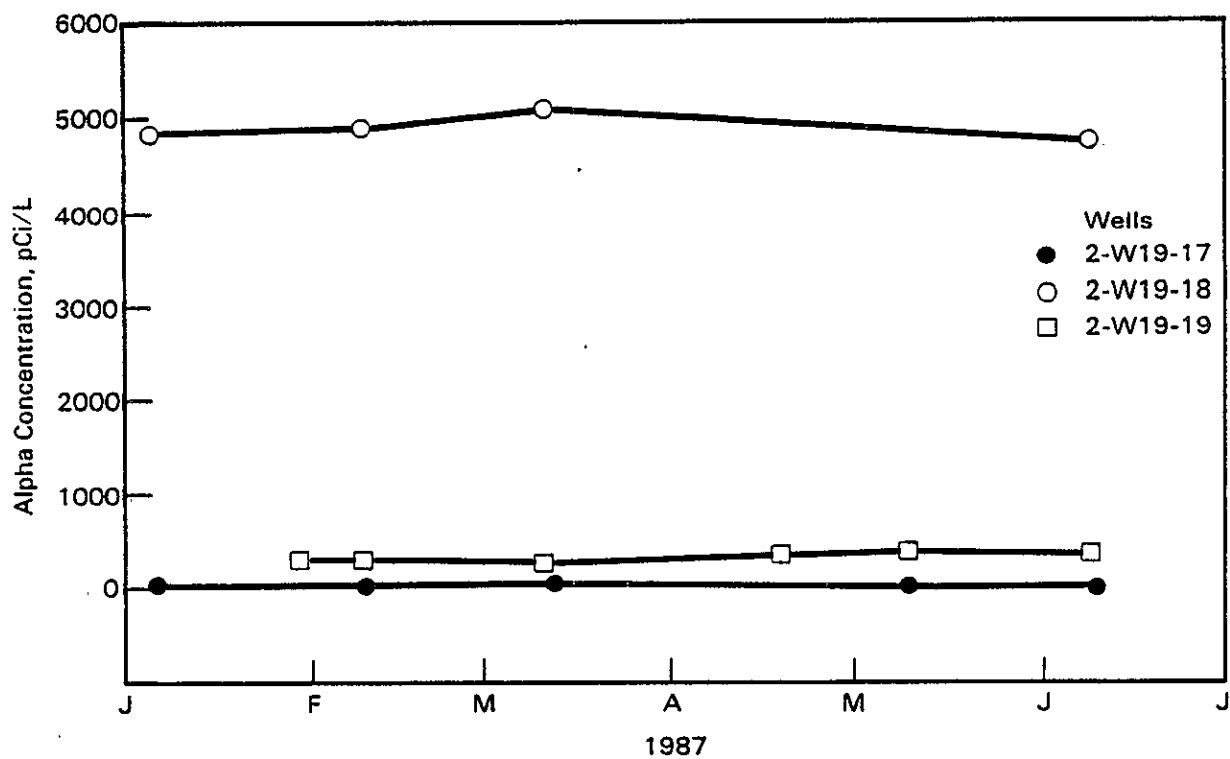


FIGURE 18. Alpha Concentrations in Wells 2-W19-17, 2-W19-18, and 2-W19-19 for the First Half of 1987

Strontium-90

Concentrations of ^{90}Sr were also above the DWS in 100H-, 100N-, 200-East-, and 200-West-Area wells. Well 1-H4-4 in the 100H Area showed a concentration of 8.05 pCi/L, which is slightly above the DWS (8 pCi/L). The DCG for ^{90}Sr is 1,000 pCi/L. In those 100N-Area wells that have been sampled since January, ^{90}Sr concentrations have generally declined slightly. Concentrations above the DWS were present in wells 1-N-2, 1-N-3, 1-N-4, 1-N-5, 1-N-14, 1-N-18, 1-N-19, 1-N-20, 1-N-27, 1-N-29, 1-N-31, 1-N-33, 1-N-37, 1-N-39, and 1-N-45. Five of these wells (1-N-2, 1-N-3, 1-N-14, 1-N-39, and 1-N-45) showed concentrations near or above the DCG (1000 pCi/L). The highest concentrations have been reported from wells 1-N-2 and 1-N-3, downgradient from the 1301N LWDF, and from well 1-N-45 near the 1325N LWDF (Figure 4). In the other 100N-Area wells that contain ^{90}Sr above the DWS, concentrations are generally well below the DCG. Concentrations in wells between the N Reactor and the Columbia River generally have been and continue

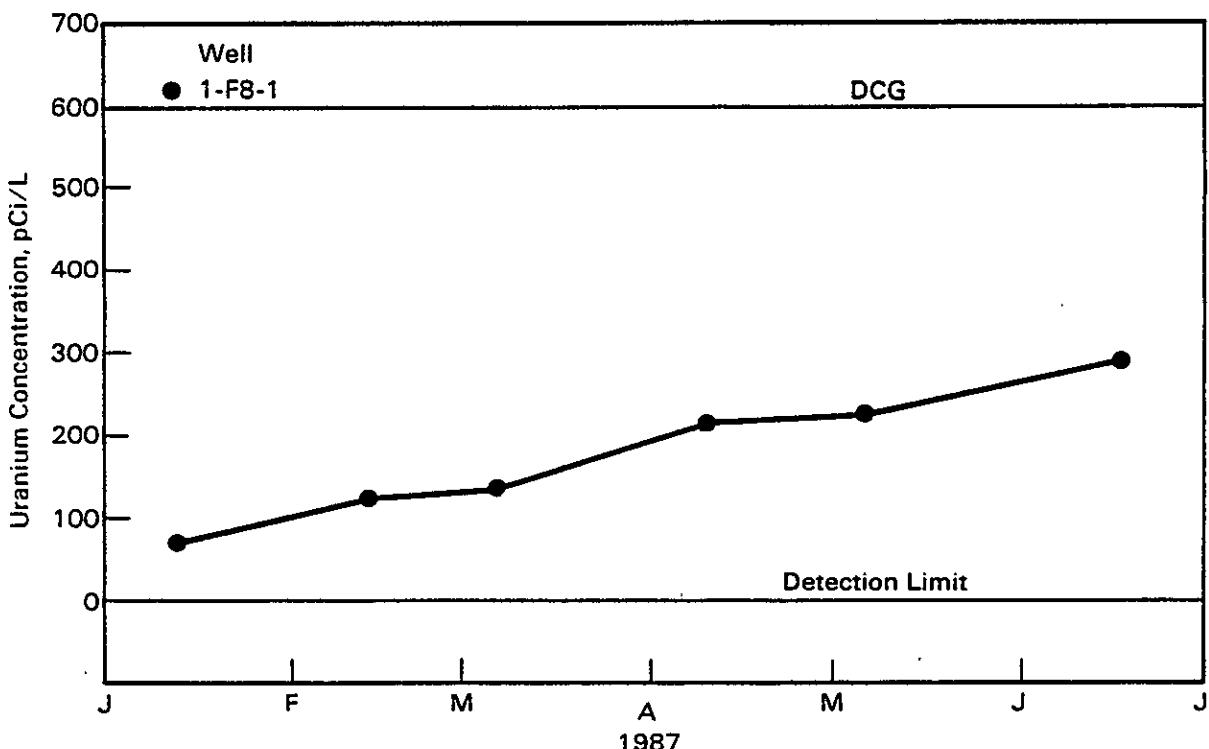


FIGURE 19. Uranium Concentrations in Well 1-F8-1 for the First Half of 1987

to be below both the DWS and the detection limit. Wells 1-N-21, 1-N-22, 1-N-23, and 1-N-24 have contained concentrations slightly above the DWS on previous occasions but generally remain below. Concentrations in wells 1-N-2 and 1-N-3 appear to have peaked in 1986 and are currently declining. The decline is presumably a result of discontinuing disposal of materials containing ^{90}Sr to the 1301N LWDF. It is difficult to link trends in ^{90}Sr concentrations in wells near the 1325N LWDF with disposal operations at that facility. Strontium-90 concentrations in some of the wells (e.g., 1-N-33 and 1-N-31) were higher before use of that facility began in September 1985, whereas concentrations in other wells have increased since that time (e.g., wells 1-N-27, 1-N-29, 1-N-36, and 1-N-45).

Several 200-East-Area wells contained ^{90}Sr in concentrations greater than the DWS. The highest concentrations were found northeast of the B Plant in wells 2-E28-7 (85.7 pCi/L), 2-E28-23 (6,910 pCi/L), 2-E28-24 (186 pCi/L),

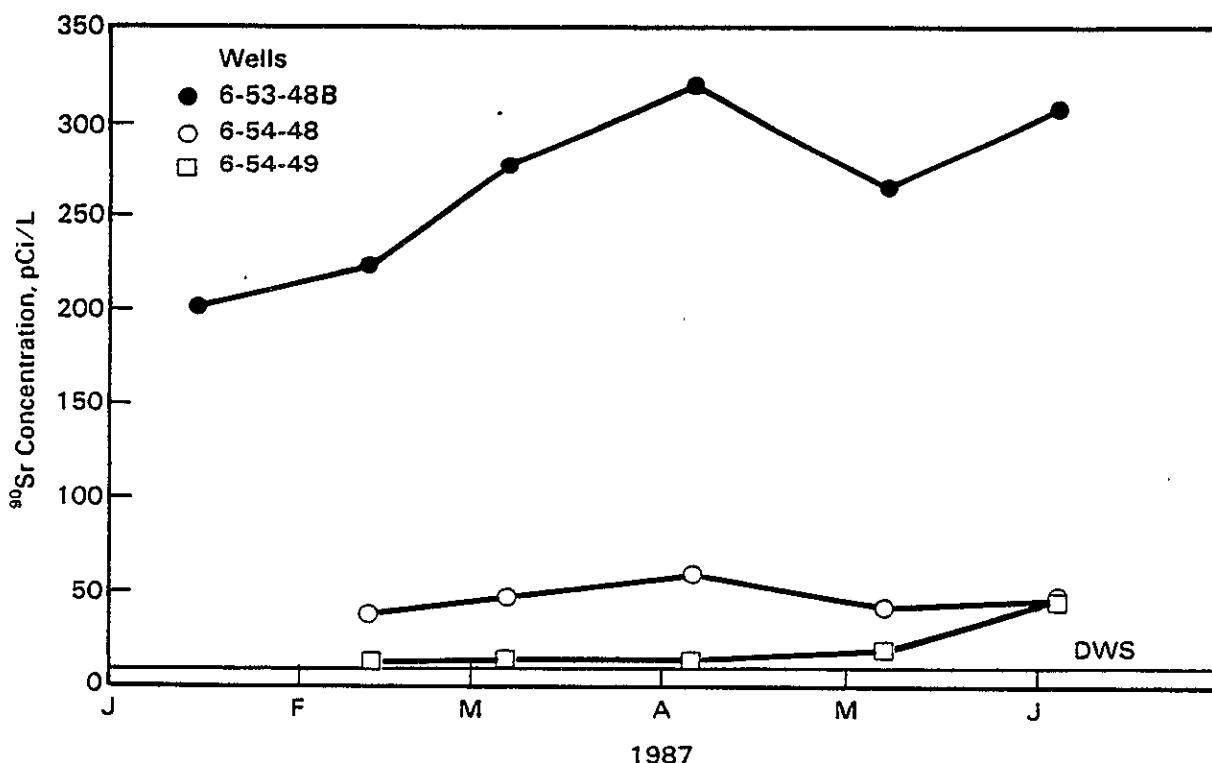


FIGURE 20. Strontium-90 Concentrations in Wells 6-53-48B, 6-54-48, and 6-54-49 for the First Half of 1987

and 2-E28-25 (3,490 pCi/L). The concentration in these wells can be attributed to wastes discharged to the 216-B-5 reverse well during 1945 to 1947 (Smith 1980). This concentration in well 2-E28-23 was similar to those measured in 1986 (about 7,000 pCi/L); the other wells were first sampled in March 1987. The only 200-West-Area wells that contained ⁹⁰Sr in concentrations above the DWS were wells 2-W19-2, 2-W22-10, and 2-W22-18 at 15.8 pCi/L, 40.6 pCi/L, and 12 pCi/L, respectively.

Cobalt-60

All ⁶⁰Co results were near or below the detection limit (20 pCi/L), except in the 100N Area and in an isolated portion of the 200 East Area and the adjacent 600 Area. Concentrations of ⁶⁰Co in most 100N-Area wells stabilized or declined slightly from 1986 levels. However, ⁶⁰Co concentrations in wells 1-N-4, 1-N-31, 1-N-32, and 1-N-33 increased in samples

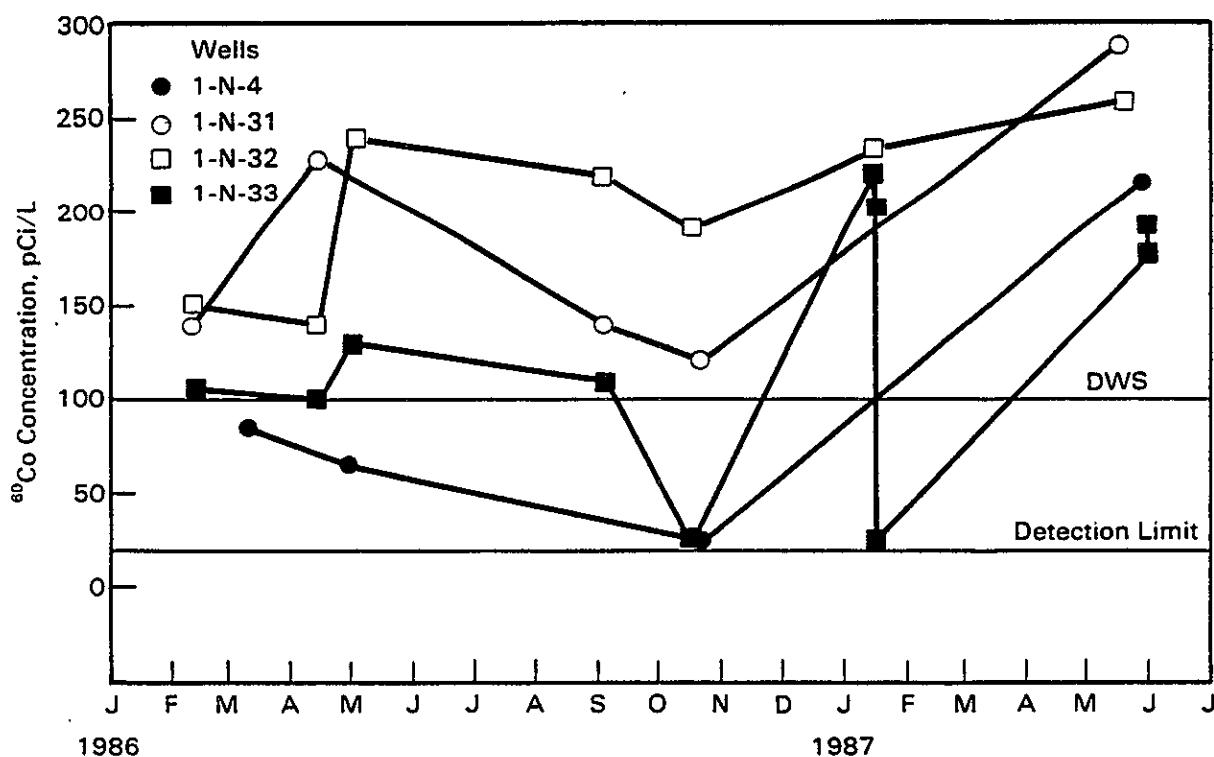


FIGURE 21. Cobalt-60 Concentrations in Wells 1-N-4, 1-N-31, 1-N-32, and 1-N-33 for 1986 and the First Half of 1987

collected in May (Figure 21). These wells and several other 100N-Area Wells contained in ^{60}Co at levels above the DWS (100 pCi/L) (Figure 22). The DCG for ^{60}Co is 5,000 pCi/L. The concentration of ^{60}Co in well 2-E33-7, located in the northern portion of the 200 East Area, increased to 75 pCi/L in May. Wells 6-49-55A and 6-50-53, which are immediately north of well 2-E33-7, continue to contain ^{60}Co in concentrations much above the DWS, at 206 and 275 pCi/L, respectively. The transport of ^{60}Co to these wells is probably attributable to complexing by cyanide, which was discussed earlier.

Cesium-137

Concentrations of cesium-137 (^{137}Cs) were below the detection limit (22.5 pCi/L) in all wells except 2-E28-23. That well continued to contain ^{137}Cs in concentrations averaging 2,490 pCi/L, which is well above the DWS (200 pCi/L). The DCG for ^{137}Cs is 3,000 pCi/L.

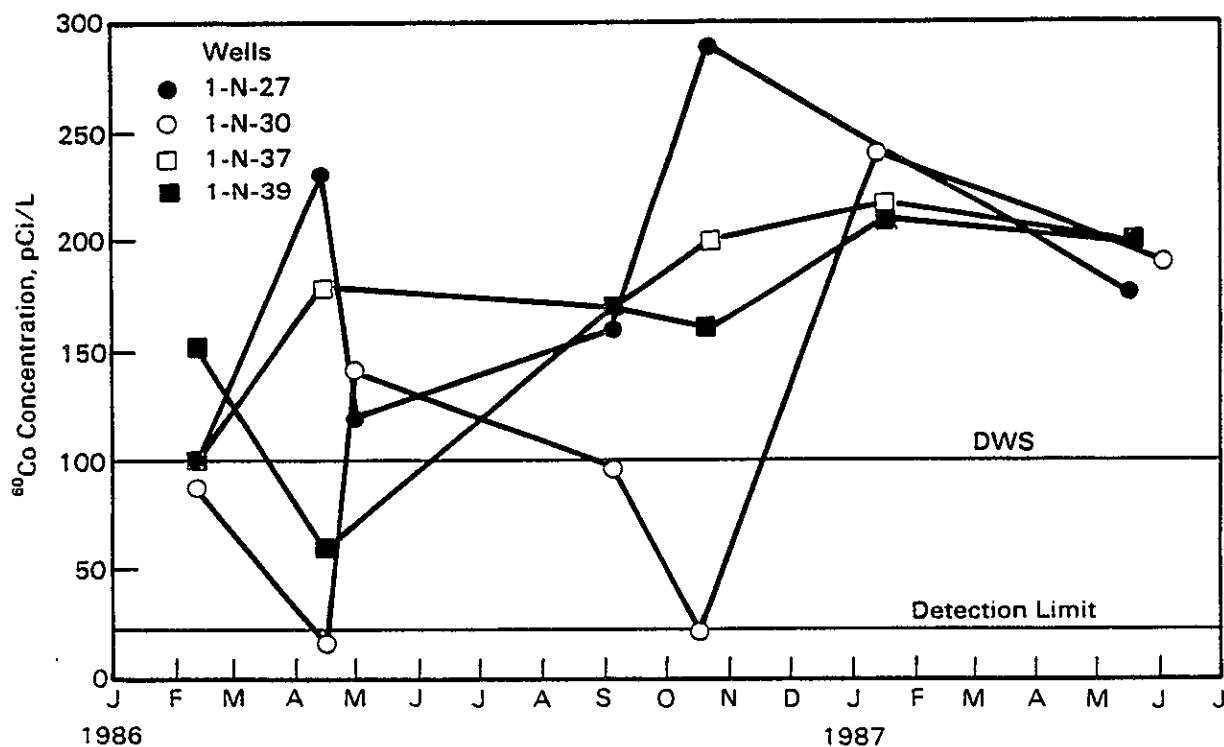


FIGURE 22. Cobalt-60 Concentrations in Wells 1-N-27, 1-N-30, 1-N-37, and 1-N-39 for 1986 and the First Half of 1987

Ruthenium-106

Because of its short half-life (367 days), ruthenium-106 (^{106}Ru) is principally detected in wells located in areas where reactors are operating and fuels being processed, such as the 100N Area and the 200 East Area near PUREX. Concentrations greater than the DWS (30 pCi/L) but less than the DCG (6,000 pCi/L) were detected in 100N- and 200-East-Area wells. Ruthenium-106 concentrations in most 100N-Area wells have remained above the DWS; however, they have generally decreased from those measured in 1986 to below the analytical laboratory's detection limit of 173 pCi/L. The DCG for ^{106}Ru is 6,000 pCi/L. Well 6-38-65, which is located between the 200 West and 200 East Areas (Figure 2), had reached a ^{106}Ru concentration of 560 pCi/L in 1986. It declined to a concentration slightly above the DWS during this quarter. Ruthenium-106 levels above the DWS were also reported in wells in all operational areas. However, the counting error was at least 75% of the analytical result, making any interpretation of the results suspect.

Antimony-125

Antimony-125 was detected only in wells near the 1325N LWDF in the 100N Area. Concentrations ranged from 119 to 295 pCi/L, far below the DCG of 60,000 pCi/L.

Technetium-99

Although some results for technetium-99 are shown in the tables of Appendix A, discussion of this constituent will be delayed until next quarter's report when more complete results are available.

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APPENDIX A

DATA LISTINGS

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APPENDIX A

DATA LISTINGS

Each monitoring well sampled on the Hanford Site from April through June 1987 is placed into one of three groups. The first group contains site-wide chemical monitoring wells (Table A.1); those wells also sampled by the DOE/HQ-EAT are footnoted. The second group contains wells in compliance monitoring networks (Table A.2). The third group contains additional site-wide radiological and nitrate monitoring wells that were not in either of the other two networks (Table A.3).

Tables A.4 through A.6 contain computer-generated listings of analytical results for these three groups of wells. A key to the constituent names used in Tables A.4 through A.6 is given in Table A.7. Some constituents appear more than once in the list in different forms, e.g., NITRATE and HNITRATE are both nitrate ion, but HNITRATE has a higher detection limit. The constituents U and U-CHEM are both total uranium, but in units of pCi/L and ppb(a), respectively. The constituent names CHROMUM and FCHROMI represent chromium analyses done on unfiltered and filtered samples, respectively.

Tables A.4 through A.6 contain all chemical results (above detection levels) and radiochemical results (for which the result is larger than the counting error). Blank spaces in the tables or constituents missing from the first column indicate that the results did not meet these criteria. The letters "NR" in the tables indicate that the analysis was not requested or the results had not yet been reported by the laboratory at the time of writing. Tables 2 through 4 of the text can be used to confirm which analyses were performed for each of the wells.

(a) The conversion from ppb uranium to pCi/L uranium is approximately 0.679 (Law, Serkowski, and Schatz 1987).

TABLE A.1. Site-Wide Chemical Monitoring Wells

1-B3-1(a)	2-E24-8	2-W18-7(a)	6-34-42
1-B4-1	2-E24-12	2-W19-1(a)	6-34-51
1-B4-4	2-E25-7(a)	2-W19-3	6-35-9
1-B5-1(a)	2-E25-18	2-W19-5	6-35-70
1-B9-1	2-E25-20	2-W19-9	6-35-78A
1-D2-5	2-E25-21	2-W19-11	6-37-82A
1-D5-12	2-E25-22	2-W19-13	6-38-65
1-D8-3	2-E26-1(a)	2-W19-15	6-39-79
1-F5-1	2-E26-3(a)	2-W19-16	6-40-1
1-F5-3(a)	2-E27-5	2-W22-12	6-40-33A
1-F5-6	2-E28-7(a)	2-W22-20	6-43-88
1-F7-1	2-E28-17(a)	2-W22-22	6-45-69A
1-F8-1	2-E28-21	2-W22-26	6-48-7
1-F8-2(a)	2-E33-1	2-W23-1(a)	6-48-18
1-K-11	2-E33-2(a)	2-W23-3(a)	6-48-71
1-K-19	2-E33-3	2-W23-7(a)	6-49-57
1-K-20	2-E33-5	2-W23-10	6-49-79
1-K-22	2-E33-8	2-W23-11(a)	6-50-53
1-K-27	2-E33-10	2-W27-1	6-51-75
1-K-28	2-E33-18	6-2-3	6-77-54
1-K-29	2-E33-21	6-2-33A	6-83-47
1-K-30	2-E33-24	6-8-25	6-89-35
1-N-6	2-W6-1(a)	6-9-E2	6-90-45
1-N-14	2-W10-4	6-15-26	6-S3-25
1-N-28	2-W10-8	6-20-E5A	6-S6E14A
1-N-29	2-W10-9	6-20-20	6-S8-19
2-E13-5	2-W12-1(a)	6-20-39	6-S12-3
2-E13-14	2-W14-2	6-24-33	6-S29-E12
2-E17-1	2-W14-5	6-28-40	6-S31-1
2-E17-5	2-W14-6	6-29-4	
2-E17-6	2-W15-4	6-32-22	
2-E17-9	2-W15-10	6-33-42	
2-E24-7(a)	2-W15-11	6-33-56	

(a) Well co-sampled by DOE/HQ-EAT.

TABLE A.2. Compliance Monitoring Wells

183-H Solar Evaporation Basins	3-1-12 3-1-13 3-1-14 3-1-15 3-1-16A 3-1-16B 3-1-16C 3-1-16D 3-1-17A 3-1-17B 3-1-17C 3-1-18A 3-1-18B 3-1-18C 3-1-19 3-2-1 3-3-7 3-3-10 3-4-1 3-4-7 3-4-11 3-8-2 6-S19-E13 6-S30E15A
Transportable Grout Facility	Solid Waste Landfill
2-E25-27	6-23-34
2-E25-28	6-24-34A 6-24-34B 6-24-34C
300 Area Process Trenches	6-24-35 6-25-34C
3-1-1 3-1-2 3-1-3 3-1-4 3-1-5 3-1-6 3-1-7 3-1-8 3-1-9 3-1-10 3-1-11	Non-Radioactive Dangerous Waste Landfill 6-25-33A 6-25-34A 6-25-34B 6-26-33 6-26-34 6-26-35A 6-26-35C

TABLE A.3. Wells in the Site-wide Radiological (Plus Nitrate) Monitoring Network That are Not Part of the Site-wide Chemical or Compliance Networks (Tables A.1 or A.2)

1-B4-2	2-E25-9	2-W19-21	6-14-E6T
1-B4-3	2-E25-11	2-W19-23	6-14-38
1-F5-4	2-E25-13	2-W19-24	6-14-47
1-N-2	2-E25-17	2-W19-25	6-15-15B
1-N-3	2-E25-19	2-W19-26	6-17-5
1-N-4	2-E25-23	2-W22-10	6-17-47
1-N-5	2-E25-24	2-W22-18	6-17-70
1-N-15	2-E26-2	2-W22-21	6-19-43
1-N-16	2-E26-4	2-W23-9	6-19-58
1-N-18	2-E26-6	2-W26-3	6-19-88
1-N-19	2-E26-8	2-W26-6	6-20-E5AP
1-N-20	2-E27-7	3-2-2	6-20-E5AR
1-N-21	2-E28-9	3-2-3	6-20-E12
1-N-22	2-E28-12	3-3-1	6-20-E12P
1-N-23	2-E28-16	3-3-2	6-20-82
1-N-25	2-E28-18	3-3-3	6-21-6
1-N-27	2-E28-23	3-3-6	6-22-70
1-N-30	2-E28-24	3-3-9	6-24-1P
1-N-31	2-E28-25	3-3-11	6-24-1R
1-N-32	2-E33-7	3-3-12	6-24-1S
1-N-33	2-E33-9	3-4-9	6-24-1T
1-N-36	2-E33-12	3-4-10	6-24-46
1-N-37	2-E33-14	3-5-1	6-25-55
1-N-39	2-E33-20	3-6-1	6-25-70
1-N-45	2-E34-1	3-8-1	6-26-15A
1-N-49	2-W10-1	3-8-3	6-26-89
1-N-50	2-W11-11	3-8-4	6-27-8
1-N-51	2-W11-18	4-S0-7	6-28-40P
1-N-52	2-W11-23	4-S0-8	6-28-52A
2-E13-8	2-W11-24	4-S1-7B	6-29-78
2-E13-19	2-W14-10	4-S1-7C	6-31-31
2-E16-2	2-W15-6	4-S1-8A	6-31-31P
2-E17-2	2-W18-5	4-S1-8B	6-32-62
2-E17-8	2-W18-9	4-S1-8C	6-32-70B
2-E17-12	2-W18-15	6-1-18	6-32-72
2-E17-13	2-W18-17	6-2-7	6-32-77
2-E23-2	2-W18-18	6-3-45	6-34-39A
2-E24-1	2-W18-20	6-4-E6	6-34-41B
2-E24-2	2-W19-2	6-8-17	6-34-88
2-E24-4	2-W19-12	6-8-32	6-35-66
2-E24-11	2-W19-17	6-10-E12	6-36-46P
2-E24-13	2-W19-18	6-10-54A	6-36-61A
2-E25-3	2-W19-19	6-12-4B	6-36-61B
2-E25-6	2-W19-20	6-13-64	6-37-E4

TABLE A.3. (contd)

6-37-43	6-51-46	6-59-58	6-71-30
6-38-15	6-51-63	6-59-80B	6-71-52
6-38-70	6-52-19	6-60-32	6-71-77
6-39-0	6-52-46A	6-60-57	6-72-73
6-39-39	6-52-48	6-60-60	6-72-88
6-40-62	6-53-35	6-61-37	6-72-92
6-41-1	6-53-47A	6-61-41	6-73-61
6-41-23	6-53-47B	6-61-62	6-74-44
6-42-2	6-53-48A	6-61-66	6-77-36
6-42-12A	6-53-48B	6-62-31	6-78-62
6-42-40A	6-53-50	6-62-43F	6-80-43P
6-42-40B	6-53-55A	6-63-25A	6-80-43R
6-42-40C	6-53-103	6-63-51	6-80-43S
6-43-3	6-54-34	6-63-55	6-81-58
6-44-4	6-54-37A	6-63-58	6-84-35A0
6-44-64	6-54-42	6-63-90	6-87-55
6-45-2	6-54-48	6-64-27	6-96-49
6-45-42	6-54-49	6-64-62	6-97-43
6-46-4	6-54-57	6-65-50	6-97-51A
6-46-21B	6-55-40	6-65-59	6-101-48B
6-47-5	6-55-44	6-65-72	6-S3-E12
6-47-35A	6-55-50A	6-65-83	6-S6-E4B
6-47-46A	6-55-50C	6-66-23	6-S6-E4D
6-47-50	6-55-50D	6-66-38	6-S7-34
6-47-60	6-55-70	6-66-39	6-S11E12A
6-49-13E	6-55-76	6-66-58	6-S11E12AP
6-49-28	6-55-89	6-66-64	6-S12-29
6-49-55A	6-56-43	6-66-103	6-S14-20A
6-49-100C	6-56-53	6-67-51	6-S18-51
6-50-28B	6-57-25A	6-67-86	6-S19-11
6-50-30	6-57-29A	6-67-98	6-S24-19
6-50-42	6-57-83A	6-68-105	6-S27-E14
6-50-45	6-58-24	6-69-38	6-S28-E0
6-50-48B	6-59-32	6-70-68	6-S31-1P
6-50-85			

TABLE A.4. Results for Site-Wide Chemical Monitoring Wells

NAME	CONSTITUENT	DETECTIION LIMITS	WATER STANDARD	SAMPLE	1-3-1	SAMPLE DATE	1-B-4-1	SAMPLE DATE	1-B-4-4
ALKALIN	AMMONIUM	PPB	50.00	50.00	06/21/87	103000.00 +	04/08/87	124000.00 +	04/08/87
		PC/L	3.00	50.00	06/21/87	54.00 %	04/08/87	67.50 %	04/08/87
		PBB	500.00	500.00	06/21/87	164.00 %	04/08/87	(7.47)	91.00 %
		UHMO	1.00	1000.00	05/21/87	460.00	04/08/87	298.00	04/08/87
		PBB	6.00	1000.00	05/21/87	36.00	04/08/87	32.00	04/08/87
		FACALCIU	2.00	1000.00	05/21/87	54100.00	04/08/87	52100.00	04/08/87
		PBB	50.00	50.00	06/21/87	9020.00	04/08/87	5840.00	04/08/87
		FCHROMI	10.00	1000.00	06/21/87	62.00 *	04/08/87	10.00	04/08/87
		PBB	5.00	50.00	06/21/87	9020.00	04/08/87	5840.00	04/08/87
		FMANGAN	5.00	1000.00	05/21/87	2090.00	04/08/87	4250.00	04/08/87
		PBB	100.00	1000.00	05/21/87	10800.00	04/08/87	21100.00	04/08/87
		FVANDAI	5.00	1000.00	05/21/87	10800.00	04/08/87	21100.00	04/08/87
		PBB	5.00	50.00	06/21/87	39500.00	04/08/87	7080.00	04/08/87
		NITRATE	5.00	500.00	04/08/87	45000.00	04/08/87	9336.00	04/08/87
		PBB	500.00	500.00	06/21/87	38800.00	04/08/87	8920.00	04/08/87
		PFIELD	0.10	0.10	06/21/87	38800.00	04/08/87	6.00	04/08/87
		RADIUM	0.10	0.10	06/21/87	5.00	NR	0.16	NR
		SULFATE	PPB	500.00	06/21/87	47600.00	04/08/87	38900.00	04/08/87
		TOC	PPB	200.00	06/21/87	645.00	04/08/87	276.00	04/08/87
		TRITIUM	PCI/L	500.00	06/21/87	2890.00	04/08/87	20500.00	04/08/87

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- + - VALUE EXCEEDS EXISTING LEVEL FOR FURTHER INVESTIGATION
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN [] ARE COUNTING ERRORS FOR RADIONUCIDES
- WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	DETECTIN	UNITS	WATER	SAMPLE	DATE	1-B5-1	DATE	1-B9-1	DATE	1-D2-5
ACETONE	PPB	NR	NR	04/08/87	86.00 +					
ALKALIN	PCI/L	3.00	50.00	06/02/87	105000.00 +	04/08/87	24.70	04/21/87	106000.00 +	NR +
CHLORID	PPB	500.00	1.00	06/02/87	{ 4.97 }	04/08/87	20100.00	04/21/87	23700.00	{ 3.89 }
CONDIFD	UWHO	NR	NR	06/02/87	{ 4.22 }	04/08/87	430.00	04/21/87	686.00	
FBARIUM	PPB	6.00	1000.00	06/02/87	36.00	04/08/87	15.00	04/21/87	93.00	
FCADMIU	PPB	2.00	10.00	06/02/87	2.00	04/08/87	2.00	04/21/87		*
FCALCIU	PPB	50.00	50.00	06/02/87	46300.00	04/08/87	62300.00	04/21/87	95600.00	
FCHROMI	PPB	0.00	0.00	06/02/87	27.00	04/08/87	16.00	04/21/87	213.00	*
FPOOTASS	PPB	100.00	00.00	06/02/87	81950.00	04/08/87	12600.00	04/21/87	27600.00	
FSDIUM	PPB	100.00	00.00	06/02/87	52800.00	04/08/87	7990.00	04/21/87	60300.00	
FVANDI	PPB	300.00	00.00	06/02/87	10400.00	04/08/87	14200.00	04/21/87	14800.00	
LDAFLPA	PCI/L	2.00	15.00	06/03/87	3.70	04/08/87	12.00	04/21/87	122.00	
NITRATE	PPB	500.00	45000.00	04/08/87	95600.00	{ 1.55 }	04/08/87	24800.00	04/21/87	77600.00 *
PHFIELD	PPB	0.10	0.10	06/02/87	108000.00	04/08/87	26300.00	04/21/87	99800.00	*
SULFATE	PPB	600.00	00.00	06/02/87	7.36	04/08/87	7.55	04/21/87	7.69	
TDXIDL	PPB	200.00	00.00	06/02/87	46400.00	04/08/87	72800.00	04/21/87	201000.00	
TRITIUM	PCI/L	500.00	20000.00	04/08/87	1136.00	04/08/87	1260.00	04/08/87	19700.00	

TABLE A.4. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.
 % - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.
 NR - ANALYSIS IN { } ARE COUNTING ERRORS FOR RADIONUCIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY.

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	SAMPLE STANDARD	SAMPLE DATE	1-D8-12	SAMPLE DATE	1-D8-3	SAMPLE DATE	1-F6-1
ALKALIN	AMMONIUM	PPB	50.00	3.00	50.00	04/21/87	102000.00 +	63000.00 +	04/10/87	109000.00 +
CHLIFORM	CHLORIDE UMH0	PPB	500.00	1.00	04/21/87	26200.00	04/21/87	18300.00	04/10/87	4490.00
FBARIUM	CONDIFLD	PPB	6.00	0.00	04/21/87	709.00	04/21/87	346.00	04/10/87	308.00
CHLORIUM	CHLORIDE UMH0	PPB	500.00	1.00	04/21/87	26200.00	04/21/87	18300.00	04/10/87	4490.00
BETTA	AMMONIUM	PPB	50.00	3.00	50.00	04/21/87	116.00 %	61.00	04/21/87	72.80 %
CHLIFORM	CHLORIDE UMH0	PPB	10.00	0.00	04/21/87	15.00	04/21/87	9.98}	04/10/87	7.59}
FCLACIUM	FCHROMATI	PPB	50.00	10.00	1000.00	04/21/87	94800.00	47100.00	04/10/87	46700.00
FMANGAN	FPMOTASS	PPB	5.00	0.00	04/21/87	6190.00	04/21/87	13.00	04/10/87	7250.00
FSDODIUM	FSFRONT	PPB	100.00	0.00	04/21/87	15600.00	04/21/87	4650.00	04/10/87	2590.00
FZINC	FVANDADI	PPB	5.00	0.00	04/21/87	628.00	04/21/87	6050.00	04/10/87	4550.00
LOALPHA	LOALPHA	PCII/L	2.00	15.00	04/21/87	17.00 %	04/21/87	6.00	04/10/87	5.00
NITRATE	PPB	500.00	45000.00	04/21/87	77100.00 *	(4.25)	04/21/87	17.00 %	04/10/87	14700.00
PHFIELD	PHFIELD	PCII/L	0.10	0.10	04/21/87	69000.00 *	04/21/87	7.20	04/10/87	15500.00
RADTUM	PCII/L	0.10	5.00	04/21/87	26000.00 *	04/21/87	7.20	04/21/87	7.10	04/10/87
SULFATE	PPB	500.00	66500.00	04/21/87	173000.00	(0.22)	04/21/87	7.41	04/10/87	7.12
TOXDL	PPB	200.00	04/21/87	1910.00	04/21/87	25.40	04/21/87	681.00	04/10/87	590.00
TOXDL	PCII/L	500.00	20000.00	04/21/87	32.40	04/21/87	9250.00	4700.00	04/10/87	527.00
WATER STANDARD	*	-	VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.	-	DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.	+ - ANALYSIS NOT REQUESTED OR NOT YET REPORTED	WATER STANDARD(S) IN { } ARE COUNTING ERRORS FOR RADIONUCIDES VALUES IN { } ARE PROPOSED PRIMARY DRINKING WATER STANDARDS	*		

TABLE A.4. (contd)

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NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	SAMPLE DATE	1-F5-3	SAMPLE DATE	1-F5-6	SAMPLE DATE	1-F7-1
ACETONE	PPB	50.00	50.00	05/20/87	84000.00 +	04/10/87	103000.00 +	04/10/87	223000.00 +
ALKALINI AMMONIUM	PCII/L	3.00	60.00	NR	{ 17.50% }	04/10/87	13.00	04/10/87	NR
CHLORIDE	PPB	50.00	50.00	05/20/87	2050.00	04/10/87	9620.00	04/10/87	{ 37600.00 (4.84%) }
FARINENI	PPB	5.00	50.00	05/20/87	272.00	04/10/87	248.00	04/10/87	767.00
FIRION	PPB	50.00	50.00	05/20/87	31700.00	04/10/87	22300.00	04/10/87	74800.00
FMANGANES	PPB	0.00	5.00	05/20/87	6330.00	04/10/87	179.00	04/10/87	23600.00
FPTASSI	PPB	100.00	100.00	05/20/87	2620.00	04/10/87	16.00	04/10/87	7660.00
FSTRDUM	PPB	100.00	100.00	05/20/87	3850.00	04/10/87	3990.00	04/10/87	60800.00
FZNIC	PPB	5.00	5.00	05/20/87	2620.00	04/10/87	16.00	04/10/87	516.00
LOALPHIA	PCII/L	2.00	15.00	05/20/87	17.00	04/10/87	7.00	04/10/87	16.00
NITRATE	PPB	500.00	45000.00	05/17/87	2590.00	04/10/87	1740.00	04/10/87	{ 3.92 (2.26%) }
PHFIELD	PPB	0.10	0.10	05/20/87	6980.00	04/10/87	1540.00	04/10/87	86300.00 *
SULFATE	PPB	500.00	500.00	05/20/87	7.00	04/10/87	7.00	04/10/87	6.80
TOLXDL	PPB	20.00	200.00	05/20/87	25600.00	04/10/87	27700.00	04/10/87	72400.00
TOCL	PPB	500.00	500.00	05/20/87	7.27	04/10/87	7.76	04/10/87	7.28
TRITIUM	PCII/L	0.50	20000.00	05/20/87	593.00	04/10/87	723.00	04/10/87	876.00

TABLE A.4. (contd)

TABLE A.4. (contd)

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NAME	CONSTITUENT	DETECTOR	LIMIT	WATER	STANDARD	SAMPLE	DATE	1-F8-1	1-F8-2	SAMPLE	DATE	1-K-11
ACETONE	PBB	PPB	10.00	04/10/87	126.00 +	04/10/87	305000.00 +	NR	04/23/87	131000.00 +	NR	-----
ALKALINI AMMONIUM	PBB	PPB	50.00	04/10/87	50.00	04/10/87	254000.00 +	71.00	05/21/87	68.30 %	04/23/87	10.55
CHLORIDE CONDFLD	PBB	PPB	500.00	04/10/87	30300.00	04/10/87	11400.00	04/23/87	6760.00	04/23/87	447.00	10.00
FARSENIUM	PBB	PPB	5.00	04/10/87	10500.00	04/10/87	10500.00	04/23/87	30.00	04/23/87	41700.00	10.00
IRON	PBB	PPB	50.00	04/10/87	50.00	04/10/87	95500.00	05/21/87	21.00	04/23/87	41700.00	29.00
MANGANESES	PBB	PPB	5.00	04/10/87	36900.00	04/10/87	36900.00	05/21/87	187.00	04/23/87	11600.00	00.00
FINCKEL	PBB	PPB	100.00	04/10/87	7280.00	04/10/87	7280.00	05/21/87	18.00	04/23/87	5910.00	00.00
FOTASSI	PBB	PPB	100.00	04/10/87	52800.00	04/10/87	52800.00	05/21/87	26300.00	04/23/87	33200.00	00.00
FSDIUM	PBB	PPB	100.00	04/10/87	7880.00	04/10/87	7880.00	05/21/87	18.00	04/23/87	5910.00	00.00
FZNIC	PBB	PPB	5.00	04/10/87	10300.00	04/10/87	10300.00	05/21/87	7.00	04/23/87	17.00	00.00
HVNANDAT	PBB	PPB	300.00	04/10/87	107000.00	04/10/87	107000.00	05/21/87	684.00	04/23/87	33200.00	00.00
LOALPFA	PBB	PPB	2500.00	04/10/87	45000.00	04/10/87	191000.00	05/21/87	13.00	04/23/87	17.00	00.00
NITRATE	PBB	PPB	500.00	04/10/87	45000.00	04/10/87	188.00 %	05/21/87	66.60 %	04/23/87	3.26	00.00 *
PHFIELD	PBB	PPB	0.10	04/10/87	150000.00	04/10/87	178000.00	05/21/87	99100.00 *	04/23/87	489000.00	00.00 *
RADIUM	PCl/L	PCl/L	0.10	5.00	04/10/87	19500.00	04/10/87	17.44	05/21/87	7.66	04/23/87	7.68
SULFATE	PPB	PPB	500.00	04/10/87	53700.00	04/10/87	66500.00	05/21/87	46.30	04/23/87	22.60	00.00
TOC	PPB	PPB	200.00	04/10/87	30100.00	04/10/87	30100.00	05/21/87	2910.00	04/23/87	10600.00	00.00
TOXLDL	PPB	PPB	20.00	04/10/87	30100.00	04/10/87	76.20	05/21/87	46.30	04/23/87	18700.00	00.00
TRITIUM	PCl/L	PCl/L	500.00	04/10/87	20000.00	04/10/87	19500.00	04/10/87	19500.00	04/10/87	47700.00	00.00
U	PCl/L	PCl/L	0.50	600.00	600.00	04/10/87	215.00	05/21/87	61.50	05/06/87	225.00	00.05 NR

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- * - % VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- * - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
- * - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- * - VALUES IN { } ARE COUNTING ERRORS FOR RADIOISOTOPES
- * - WATER STANDARDS(S) IN PARENTHESES ARE PROPOSED ONLY

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NAME	CONSTITUENT UNITS	DETECTION	WATER LIMIT	SAMPLE DATE	1-K-19	SAMPLE DATE	1-K-20	SAMPLE DATE	1-K-22
ALKALI	PBB	PPB	10.00	04/21/87	81000.00 +	04/23/87	85000.00 +	04/23/87	95000.00 +
BISZEPH	PBB	PPB	1.00	04/21/87	{ 5.96 }	04/23/87	{ 5.75 }	04/23/87	{ 4.30 }
CHLORIDE	PBB	PPB	500.00	04/21/87	29.00	04/23/87	37.80	04/23/87	16.30
CONDFLD	UHHO	PPB	1.00	04/21/87	399.00	04/23/87	454.00	04/23/87	362.00
FACLAUIM	PPB	PPB	6.00	04/21/87	6960.00	04/23/87	6300.00	04/23/87	269.00
FCHROMI	PPB	PPB	0.00	04/21/87	27.00	04/23/87	18.00	04/23/87	17.00
FSDODIUM	PPB	PPB	100.00	04/21/87	8240.00	04/23/87	7850.00	04/23/87	7360.00
FPTOTASS	PPB	PPB	0.00	04/21/87	97.00 *	04/23/87	146.00	04/23/87	193.00 *
FZNINC	PPB	PPB	100.00	04/21/87	3180.00	04/23/87	4480.00	04/23/87	2380.00
HNITRAT	PPB	PPB	2500.00	04/21/87	118.00	04/23/87	118.00	04/23/87	4950.00
LOALPHA	PCIT/L	PPB	2.00	04/21/87	15.00	06/16/87	59200.00 *	04/23/87	280.00
NITRATE	PPB	PPB	500.00	04/21/87	{ 1.32 }	68100.00 *	04/23/87	21800.00	3400.00
PFIELD	PCIT/L	PPB	0.10	04/21/87	5.00	04/21/87	5.00	04/23/87	3560.00
RADIUIM	PCIT/L	PPB	0.10	04/21/87	0.16	04/23/87	7.60	04/23/87	7.50
SULFATE	TOXLDL	PPB	500.00	04/21/87	60700.00	04/23/87	51800.00	04/23/87	42200.00
TOC	TRITIUM	PCIT/L	500.00	04/21/87	54.10	04/23/87	394.00	04/23/87	564.00
U	U	PCIT/L	0.50	04/21/87	1.29	04/23/87	1.21	04/23/87	1.17

TABLE A.4. (contd)

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	SAMPLE DATE	1-K-27	SAMPLE DATE	1-K-28	SAMPLE DATE	1-K-29
ALKALIN	CHLORIDE	PPB	10.00	04/23/87	120000.00	04/22/87	159000.00	04/22/87	108000.00 + 6.35 6.32 }
BETA	PCI/L	3.00	50.00	04/23/87	35.40	04/22/87	18.50	04/22/87	18.50 + 6.35 6.32 }
CHLORIDE	PPB	500.00	50.00	04/23/87	4460.00	04/22/87	9100.00	04/22/87	2740.00 11.00
CONDFLD	UMHO	1.00	04/23/87	286.00	04/22/87	390.00	04/22/87	04/22/87	264.00 2740.00 11.00
FRARIUM	PPB	6.00	04/23/87	40400.00	04/22/87	57100.00	04/22/87	40400.00	34900.00 17.00
FCLCIIU	PPB	50.00	1000.00	04/23/87	40400.00	04/22/87	57100.00	04/22/87	34900.00 17.00
FMDGAN	PPB	5.00	04/23/87	86900.00	04/22/87	12100.00	04/22/87	86900.00	34900.00 6.00
FPTOTASS	PPB	100.00	04/23/87	4790.00	04/22/87	5790.00	04/22/87	5790.00	4470.00 6.00
FSDOUDI	PPB	5.00	04/23/87	7940.00	04/22/87	12500.00	04/22/87	8450.00	8450.00 8.00
FZNIC	PPB	5.00	04/23/87	7.00	04/22/87	8.00	04/22/87	8.00	8.00 8.00
LOALPHA	PCI/L	2.00	15.00	04/23/87	4.19	04/22/87	3.33	04/22/87	2.22 1.20 }
NITRATE	PPB	500.00	45000.00	04/23/87	8910.00	04/22/87	23400.00	04/22/87	11800.00 11700.00
PHTIELD	0.10	0.10	04/23/87	8720.00	04/22/87	23000.00	04/22/87	8720.00	11700.00 11800.00
SULFATE	PPB	500.00	20000.00	04/23/87	1650.00	04/22/87	5210.00	04/22/87	25.20 673.00
TOXLDL	PPB	200.00	04/23/87	792.00	04/22/87	1610.00	04/22/87	1610.00	24000.00 7.63
TOC	PPB	500.00	04/23/87	23300.00	04/22/87	27400.00	04/22/87	27400.00	24000.00 7.40
TRITIUM	PCI/L	500.00	20000.00	04/23/87	1650.00	04/22/87	5210.00	04/22/87	12400.00 1.70 (494.00)

TABLE A.4. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - ANALYSIS NOT AVAILABLE FOR REPORTED COMPARISON.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.
 VALUES IN () ARE COUNTING ERRORS FOR RADIONUCIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY.

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	STANDARD	SAMPLE DATE	1-K-36	SAMPLE DATE	1-N-6	SAMPLE DATE	1-N-14
ALKALIN	BETA	PCI/L	3.00	50.00	04/22/87	103000.00 +	05/29/87	51000.00 %	06/01/87	2200.00 %
CHLIFORM	CHLORID	PPB	10.00	12.00	04/22/87	{ 3.96 }	{ 16.80 }	{ 16.80 }	06/01/87	{ 39.30 }
CO 60	CO	PCI/L	22.50	100.00	04/22/87	3960.00	05/29/87	728.00	06/01/87	1340.00
CONDFLD	UMHO	PPB	1.00	353.00	04/22/87	137.00	05/29/87	19.00	06/01/87	193.00
FCLALCUM	FCLALCUM	PPB	6.00	1000.00	04/22/87	25.00	05/29/87	46600.00	06/01/87	19.00
FMDAGNES	FMDAGNES	PPB	0.00	053.00	04/22/87	19.00	05/29/87	22600.00	06/01/87	19.00
FSDODIUM	FSDODIUM	PPB	100.00	10200.00	04/22/87	4970.00	05/29/87	3920.00	06/01/87	4790.00
FPTOTASS	FPTOTASS	PPB	0.00	052.00	04/22/87	10700.00	05/29/87	29800.00	06/01/87	1780.00
FZNINC	FZNINC	PPB	5.00	100.00	04/22/87	1.00	05/29/87	13.00	06/01/87	6.00
LAOLPCHA	LAOLPCHA	PCI/L	2.00	15.00	04/22/87	14.00	05/29/87	13.00	06/01/87	6.00
NITRATE	NITRATE	PPB	500.00	45000.00	04/22/87	58500.00 *	05/29/87	23800.00	06/01/87	40500.00
PFIELD	PFIELD	PPB	0.10	052.00	04/22/87	51700.00 *	05/29/87	51700.00 *	06/01/87	42500.00
SULFATE	SULFATE	PPB	500.00	500.00	04/22/87	57.00	05/29/87	7.20	06/01/87	7.30
TRITIUM	TRITIUM	PCI/L	0.50	600.00	04/22/87	{ 1.66 }	05/29/87	600.00	06/01/87	{ 1330.00 } *

TABLE A.4. (contd)

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCIDES
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.
 # - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

TABLE A.4. (Contd)

NAME	CONSTITUENT	DETECTION UNITS	LIMIT	WATER SAMPLE	STANDARD DATE	1-N-28	1-N-29	SAMPLE DATE	2-E13-6
ALKALIN AMMONIUM	PBP PC/L	50.00	3.00	41400.00 +	06/01/87	34700.00	06/01/87	05/22/87	158000.00 +
BETA	PBP PC/L	50.00	50.00	1470.00	06/01/87	424.00 %	06/01/87	1070.00 %	05/22/87
CHLORID CO 60	PBP PC/L	500.00	22.50	100.00	06/01/87	622.00	06/01/87	175.00 *	05/22/87
FARESIN CONDFLD	PBP PPB	1.00	0.00	06/01/87	132.00	06/01/87	115.00	(26.70)	406.00
FBARIUM CALCIU	PBP PPB	6.00	50.00	06/01/87	10.00	06/01/87	12.00	13300.00	NR
FPOFTASS FSDIUM	PBP PPB	100.00	00.00	06/01/87	15800.00	06/01/87	3080.00	06/01/87	NR
FMANGES FZINC	PBP PPB	0.00	50.00	06/01/87	14.00	06/01/87	114.00	13300.00	NR
METHONE NITRATE	PBP PPB	10.00	45000.00	06/01/87	17500.00	06/01/87	18000.00	06/22/87	10700.00
PHFIELD PHOSPHA	PBP PC/L	0.10	00.00	06/01/87	20300.00	06/01/87	20500.00	06/22/87	7.52
RU 103	PBP PC/L	1000.00	50000.00	06/01/87	8.31	06/01/87	8.40	06/01/87	8.30
SB 125	PC/L	48.00	50000.00	NR	NR	06/01/87	(17.30)	NR	NR
SLUFATE TOC	PBP PPB	500.00	200.00	06/01/87	6890.00	06/01/87	5270.00	06/01/87	5270.00
TRITIUM	PC/L	500.00	200000.00	06/01/87	92700.00 *	06/01/87	88000.00	06/01/87	88000.00 *

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
+ - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- ANALYSIS NOT AVAILABLE FOR FURTHER INVESTIGATION.
NR - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
VALUES IN () ARE COUNTING ERRORS FOR RADIONUCLIDES
NR - COUNTING ERRORS FOR RADIONUCLIDES NOT YET REPORTED

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
+ - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.

TABLE A.4. (contd.)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E13-14	SAMPLE DATE	2-E17-1	SAMPLE DATE	2-E17-5			
TRITIUM	PCI/L	500.00	20000.00		NR	06/10/87	7340000.00 *	06/10/87	4090000.00 *		{ 8770.00}	{14700.00}
U-CHEM	UG/L	0.73			NR	06/08/87	7100000.00 *	06/08/87	4140000.00 *	NR	{22100.00}	{17000.00}
					NR		NR	04/02/87	9.34			
					NR		NR	05/10/87	8.06			
					NR		NR	06/08/87	5.89			

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	DETECTION	WATER UNITS	LIMIT	STANDARD	SAMPLE DATE	2-E17-6	SAMPLE DATE	2-E17-9	SAMPLE DATE	2-E24-7
ALKALIN AMMONIUM	PBP	50.00	04/15/87	157000.00 +	04/14/87	118000.00 +	06/16/87	93200.00 +			
BETA	PC/L	3.00	04/02/87	11.00	04/14/87	23.40	06/16/87	47.10	66.00	47.10	
			(2.46)	(6.96)	(3.49)	(30.60)					(6.67)
			04/15/87	04/14/87	04/14/87	04/14/87					
			(2.03)	(13.70)	(5.70)	(30.70)	06/10/87	(4.01)	NR	NR	
			(2.03)	(13.70)	(5.70)	(30.70)	06/10/87	(4.01)	NR	NR	
			04/15/87	04/14/87	04/14/87	04/14/87	06/08/87	(3.42)	NR	NR	
			(2.03)	(13.70)	(5.70)	(30.70)	06/10/87	(4.01)	NR	NR	
			04/15/87	04/14/87	04/14/87	04/14/87	06/08/87	(3.42)	NR	NR	
CHLORIDE	PBP	500.00	04/15/87	3370.00	04/14/87	6870.00	06/16/87	6210.00	NR	NR	
FARSENIT	PBP	5.00	04/15/87	305.00	04/14/87	728.00	06/16/87	NR	NR	NR	
FACIUM	PBP	6.00	04/15/87	67.00	04/14/87	64.00	06/16/87	32.00	NR	NR	
FIRON	PBP	50.00	04/15/87	32400.00	04/14/87	55700.00	06/16/87	23900.00	NR	NR	
FLUORID	PBP	5.00	04/15/87	50.00	04/14/87	324.00	06/16/87	32.00	NR	NR	
FMANES	PBP	0.00	04/15/87	12400.00	04/14/87	18100.00	06/16/87	633.00	7950.00	6.00	
FMANAN	PBP	0.00	04/15/87	86.00	04/14/87	7230.00	06/16/87	5510.00	25400.00	5.00	
FOTASS	PBP	100.00	04/15/87	6780.00	04/14/87	30800.00	06/16/87	66.00	100.00	21.00	
FODIUM	PBP	300.00	04/15/87	17800.00	04/14/87	3200.00	06/16/87	25400.00	25400.00	10.00	
FZINC	PBP	5.00	04/15/87	25.00	04/14/87	25.00	06/16/87	10.00	21.00	10.00	
LOALPHA	PCI/L	2.00	04/14/87	4.16	04/14/87	4.16	06/16/87	4.71	4.71	4.71	{ 1.74 }
NITRATE	PBP	500.00	04/02/87	536.00	04/14/87	606.00	06/08/87	NR	NR	NR	
PHFIELD	PBP	0.10	04/15/87	NR	04/14/87	7.40	06/10/87	148000.00 *	NR	NR	
SULFATE	PBP	500.00	04/15/87	7.64	04/14/87	7.50	06/16/87	137000.00 *	NR	NR	
TOC	PPB	200.00	04/15/87	23400.00	04/14/87	44400.00	06/16/87	35600.00	445.00	35600.00	
TRITIUM	PCI/L	500.00	04/02/87	22100.00 *	04/02/87	554000.00 *	06/16/87	10700.00	445.00	35600.00	

TABLE A.4. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS SCREENING LEVEL FOR COMPARISON.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCIDES

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

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TABLE A.4. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E17-6	SAMPLE DATE	2-E17-9	SAMPLE DATE	2-E24-7
TRITIUM	PCI/L	500.00	20000.00	04/15/87	9890.00 { 461.00 } NR	05/10/87 06/08/87	6230000.00 * {16300.00} 5210000.00 * {19100.00}		NR
U-CHEM	UG/L	0.73			NR NR NR	04/14/87 05/10/87 06/08/87	4.10 4.24 4.29	NR NR NR	

A.18

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
- WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	DETECTOR	UNITS	LIMIT	SAMPLE	STANDARD	DATE	SAMPLE DATE	DATE	2-E25-7
ALKALIN AMMONIUM	PPB	PCI/L	50.00	50.00	04/16/87	103000.00 +	04/16/87	131000.00 +	06/17/87	88400.00 +
BETA	PPB	PCI/L	3.00	50.00	04/16/87	(3.30)	04/16/87	(3.70)	06/17/87	(3.72)
CHLORID UMW	PPB	PCI/L	500.00	1.00	04/16/87	11400.00	04/16/87	4740.00	06/17/87	4280.00
FARSENII	PPB	PCI/L	5.00	50.00	04/16/87	342.00	04/16/87	385.00	06/17/87	11.00
FBARIUM	PPB	PCI/L	6.00	50.00	04/16/87	6.00	04/16/87	7.00	06/17/87	28.00
FCLACIU	PPB	PCI/L	6.00	1000.00	04/16/87	31.00	04/16/87	44.00	06/17/87	11.00
FZINC	PPB	PCI/L	50.00	100.00	04/16/87	33500.00	04/16/87	43300.00	06/17/87	22200.00
FNITRAT	PPB	PCI/L	5.00	100.00	04/16/87	15500.00	04/16/87	21200.00	06/17/87	5130.00
FSDODIUM	PPB	PCI/L	100.00	100.00	04/16/87	5610.00	04/16/87	6180.00	06/17/87	6420.00
FPORTASS	PPB	PCI/L	0.00	0.00	04/16/87	9810.00	04/16/87	12200.00	06/17/87	58.00
FMANGENES	PPB	PCI/L	0.00	0.00	04/16/87	9810.00	04/16/87	12200.00	06/17/87	6420.00
FVANADIU	PPB	PCI/L	100.00	100.00	04/16/87	6180.00	04/16/87	6180.00	06/17/87	14900.00
HINTRAT	PPB	PCI/L	5.00	5.00	04/16/87	24.00	04/16/87	25.00	06/17/87	32.00
LOALPRA	PPB	PCI/L	2500.00	45000.00	04/16/87	15.00	04/16/87	16.00	06/17/87	NR
NITRATE	PPB	PCI/L	500.00	45000.00	04/16/87	6370.00	04/16/87	6300.00	06/17/87	2040.00
PHFIELD	PPB	PCI/L	0.10	0.10	04/16/87	35000.00	04/16/87	53000.00	06/17/87	7.84
SULFATE	PPB	PCI/L	500.00	500.00	04/16/87	6540.00	04/16/87	69200.00	06/17/87	NR
TOC	PPB	PCI/L	200.00	200.00	04/16/87	499.00	04/16/87	401.00	06/17/87	626.00
TRITIUM	PPB	PCI/L	500.00	500.00	04/16/87	41700.00	04/16/87	32900.00	06/17/87	16100.00

TABLE A.4. (contd)

NAME	CONSTITUENT	DETECTION	WATER	LIMIT	UNITS	SAMPLE	STANDARD	DATE	2-E25-18	SAMPLE	2-E25-20	DATE	2-E25-21
ALKALI	BETA	PCI/L	3.00	50.00	04/15/87	93000.00 +	04/13/87	111000.00 +	04/13/87	131000.00	04/13/87	111.00	2.45{}
CHLORIDE	COPPER	PPB	500.00	1.00	04/15/87	(2.12)	04/13/87	{ 13.30}	04/13/87	13.70	04/13/87	12.30	3.92{}
CHLORIDE	UMHO	PPB	500.00	1.00	04/15/87	(3.62)	04/13/87	{ 8.97}	04/13/87	8.84	04/13/87	2.84	3.92{}
FARBRUM	PPB	6.00	50.00	04/15/87	279.00	04/13/87	657.00	04/13/87	6700.00	4350.00	04/13/87	314.00	8.00
FARBRUM	FCLACLU	PPB	6.00	1000.00	04/15/87	10.00	04/13/87	15.00	04/13/87	58.00	04/13/87	24.00	8.00
FARBRUM	FLEUDRID	PPB	600.00	1000.00	04/15/87	1400.00	26800.00	04/13/87	57500.00	613.00	04/13/87	24100.00	696.00
FARBRUM	FMANCAGAN	PPB	0.00	0.00	04/15/87	7760.00	04/13/87	15600.00	04/13/87	17500.00	04/13/87	6510.00	0.00
FARBRUM	FSDOTASS	PPB	1000.00	1000.00	04/15/87	5530.00	04/13/87	12200.00	04/13/87	1910.00	04/13/87	7910.00	8.00
FARBRUM	FSTRONT	PPB	3000.00	1000.00	04/15/87	21700.00	04/13/87	47800.00	04/13/87	37800.00	04/13/87	37800.00	0.00
FARBRUM	LOALPCHA	PPB	5.00	0.00	04/15/87	38.00	04/13/87	46.00	04/13/87	8.00	04/13/87	70.00	8.00
NITRATE	PPB	500.00	45000.00	04/15/87	24600.00	04/13/87	168000.00 *	04/13/87	{ 0.64}	06/09/87	2.11	04/13/87	70.00
RADIUM	PHFIELD	PCI/L	0.10	0.10	04/15/87	26700.00	04/13/87	168000.00 *	04/13/87	195000.00 *	06/09/87	102000.00	12400.00
RADIUM	PCII/L	PCI/L	0.10	0.10	04/15/87	26700.00	04/13/87	168000.00 *	04/13/87	195000.00 *	06/09/87	102000.00	12400.00
SULFATE	TOC	PPB	500.00	2000.00	04/15/87	37200.00	04/13/87	533000.00 *	04/13/87	6410.00	04/13/87	414.00	414.00
SULFATE	TRITIUM	PPB	500.00	2000.00	04/15/87	37200.00	04/13/87	533000.00 *	04/13/87	6410.00	04/13/87	414.00	414.00

TABLE A.4. (contd)

NAME	CONSTITUENT	UNITS	DETECTION LIMIT	WATER	SAMPLE	SAMPLE DATE	2-E26-22	SAMPLE DATE	2-E26-1	SAMPLE DATE	2-E26-2	SAMPLE DATE	2-E26-3
ALKALINI	AMMONIUM	PPB	50.00	PC1/L	3.00	50.00	04/15/87	95000.00 +	06/16/87	94200.00 +	06/16/87	85700.00 +	
BETA													
CHLORID	UMHO	PPB	500.00										
CONDFLD													
FARTRIUM	PPB	5.00	50.00		10000.00	04/15/87	11.00	06/16/87	23.00	06/16/87	8.00	06/16/87	
FCALCIU	PPB	6.00											
FPMAGNES	PPB	0.00											
FSDODIUM	PPB	100.00											
FPTOTASS	PPB	0.00											
FZNINC	PPB	5.00											
NITRATE	PPB	500.00											
PHFIELD	PPB	0.10											
POC	PPB	500.00											
SLFATE	PPB	500.00											
TRITIUM	PPB	500.00											
UNKNOWN	PPB	0.00											

TABLE A.4. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 + - ANALYSIS NOT REQUISTED OR NOT YET REPORTED
 NR - ANALYSIS NOT AVAILABLE FOR COMPARISON
 - DETECTION LIMIT WAS NOT AVALIABLE FOR FURTHER INVESTIGATION.
 VALUES IN () ARE COUNTING ERRORS FOR RADIONUCIDES
 AFTER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY.

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NAME	CONSTITUENT UNITS	DETECTION LIMIT	WATER STANDARD SAMPLE	2-E27-5 DATE	2-E28-7 DATE	SAMPLE DATE	2-E28-17
ALKALI	BETA	PCI/L	3.00	50.00 06/29/87	95500.00 71.30 %	06/22/87 224.00 %	06/23/87 8.88 %
CHLORIDE	UNHO	PBB	500.00	06/29/87	6690.00 { 5.05 }	06/22/87 1160.00 %	06/23/87 { 2.36 }
CONDIFLD	FBARIUM	PBB	6.00	10000.00 06/29/87	253.00 { 3.0 }	06/22/87 12300.00	06/23/87 10700.00 NR
CONDIFLD	CHLORID	PBB	1.00	500.00 06/29/87	6690.00 { 30.00 }	06/22/87	06/23/87 { 4.4 }
CONDIFLD	UMHO	PBB	500.00	06/29/87	6690.00 { 30.00 }	06/22/87	06/23/87 1100.00 %
FBARIUM	PPB	6.00	10000.00 06/29/87	36.00 { 3.0 }	06/22/87 27800.00	06/23/87 54900.00 %	
FPTOTASS	PPB	0.00	100.00 06/29/87	8480.00 { 6.00 }	06/22/87 558.00	06/23/87 543.00 %	
FZNODIUM	PPB	100.00	06/29/87	5120.00 { 4.00 }	06/22/87 9100.00	06/23/87 16900.00 %	
FZNODI	PPB	5.00	13700.00 06/29/87	13700.00 { 1.00 }	06/22/87 6160.00	06/23/87 72600.00 %	
LOALPHA	PPB	2.00	15.00 06/29/87	44.00 { 3.00 }	06/22/87 21000.00	06/23/87 27600.00 %	
NITRATE	PHFIELD	PPB	500.00 06/29/87	6620.00 { 5.00 }	06/22/87 9960.00	06/23/87 27100.00 %	
RADIUM	PCI/L	0.10	5.00 06/29/87	7.50 { 0.14 }	06/22/87 7.74	06/23/87 7.53 %	
SULFATE	TDC	PPB	500.00 06/29/87	6588.00 { 5.00 }	06/22/87 356400.00	06/23/87 126600.00 %	
TRITIUM	PCI/L	500.00 06/29/87	35700.00 { 5.00 }	06/22/87 3590.00	06/23/87 466.00 %		
U-CHEM	UG/L	0.73	20000.00 06/29/87	6538.00 { 5.00 }	06/22/87 4930.00	06/23/87 7800.00 %	

TABLE A.4. (contd)

TABLE A.4. (contd)

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TABLE A.4. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE		SAMPLE DATE		SAMPLE DATE	
					2-E28-21		2-E33-1		2-E33-2
U-CHEM	UG/L	0.73		04/14/87 05/17/87 06/10/87	69.40 79.30 68.00			NR NR NR	NR NR NR

A.24

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
- WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	STANDARD	SAMPLE DATE	2-E33-3	SAMPLE DATE	2-E33-5	SAMPLE DATE	2-E33-8
ALKALIN AMMONIUM	PBB	50.00	50.00	05/19/87	97000.00 +	05/19/87	92000.00 +	05/22/87	101000.00 +	+
BETA	PCl/L	3.00	50.00	05/19/87	70.00 %	05/19/87	83.40 %	05/19/87	309.00 %	% 83.10 %
					(8.19)	(15.20)	(11.60)	(14.90)	(11.50)	% 8.03 %
CHLORID CONFLD UMH0	PBB	1.00	50.00	05/19/87	293.00	05/19/87	448.00	05/22/87	4180.00	255.00
CYANIDE	PBB	1.00	50.00	05/19/87	263.00	05/19/87	260.00	05/22/87	20.00	05/22/87
FBARIUM	PBB	6.00	1000.00	05/19/87	19.00	05/19/87	30.00	05/19/87	27800.00	05/22/87
FLUORIDE	PBB	5.00	10.00	05/19/87	10.00	05/19/87	10.00	05/19/87	30800.00	05/22/87
MAGNES	PBB	500.00	1400.00	05/19/87	967.00	05/19/87	7560.00	05/19/87	8760.00	05/22/87
MERCUR	PBB	0.00	0.00	05/19/87	0.11	05/19/87	0.11	05/19/87	0.11	05/22/87
FPOFATAS	PBB	100.00	483.00	05/19/87	31600.00	05/19/87	24900.00	05/19/87	28000.00	05/22/87
FZINC	PBB	5.00	60.00	05/19/87	32.00	05/19/87	28.00	05/19/87	19.00	05/22/87
EVANDADI	PBB	100.00	100.00	05/19/87	5130.00	05/19/87	5130.00	05/19/87	5080.00	05/22/87
LOALPHA	PCl/L	2.00	15.00	05/19/87	6.00	05/19/87	6.00	05/19/87	5.00	05/22/87
NITRATE	PBB	500.00	45000.00	05/19/87	44200.00	05/19/87	35200.00	05/19/87	364.00	05/22/87
PHFIELD	PBB	500.00	0.10	05/19/87	7.70	05/19/87	7.50	05/19/87	6.36	05/22/87
SULFATE	PBB	500.00	05/19/87	28000.00	05/19/87	38600.00	05/19/87	38600.00	364.00	05/22/87
TOXIDL	PPB	20.00	05/19/87	493.00	05/19/87	493.00	05/19/87	493.00	368.00	05/22/87
TOC	PBB	500.00	05/19/87	28000.00	05/19/87	38600.00	05/19/87	38600.00	27900.00	05/22/87
TRITIUM	PCl/L	500.00	20000.00	05/19/87	819.00	05/19/87	819.00	05/19/87	819.00	NR

TABLE A.4. (contd)

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.

- VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

A.26

NAME	CONSTITUENT	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E33-10	SAMPLE DATE	2-E33-18	SAMPLE DATE	2-E33-21
ALKALINI AMMONIUM	PPB	50.00	50.00	05/27/87	95000.00 +	05/19/87	94000.00 +	05/27/87	102000.00 +
CHLORIDE CONDUCT	PPB	500.00	500.00	05/27/87	18.50	{ 4.35 }	{ 3.00 }	{ 2.19 }	{ 2.24 }
FARSENITE FRACTION	PPB	1.00	0.00	05/27/87	18.40	{ 3.83 }	05/19/87	8.86	05/27/87
MHD CONDUCT	PPB	500.00	500.00	05/27/87	6960.00	05/19/87	2230.00	05/27/87	4610.00
FLUDORIDE FLUORIDE	PPB	50.00	1000.00	05/27/87	230.00	05/19/87	221.00	05/27/87	232.00
FCLACIUM FRACTION	PPB	5.00	50.00	05/27/87	6960.00	05/19/87	2230.00	05/27/87	4610.00
GARNETIC UMH0	PPB	500.00	0.00	05/27/87	6960.00	05/19/87	2230.00	05/27/87	4610.00
HAFNATE FRACTION	PPB	1.00	0.00	05/27/87	6960.00	05/19/87	2230.00	05/27/87	4610.00
LEADIC FRACTION	PPB	5.00	50.00	05/27/87	230.00	05/19/87	221.00	05/27/87	232.00
MAGNESIUM FLUORIDE	PPB	500.00	1400.00	05/27/87	507.00	NR	05/19/87	22700.00	27600.00
MANGANESE FLUORIDE	PPB	5.00	1000.00	05/27/87	507.00	NR	05/19/87	22700.00	27600.00
NITRATE FRACTION	PPB	5.00	50.00	05/27/87	26.00	05/19/87	24.00	05/27/87	29.00
PHFIELD SODIUM	PPB	100.00	0.00	05/27/87	4850.00	05/19/87	14700.00	05/27/87	12400.00
PHFIELD VANADIUM	PPB	100.00	0.00	05/27/87	4850.00	05/19/87	14700.00	05/27/87	12400.00
PHFIELD ZINC	PPB	5.00	50.00	05/27/87	26.00	05/19/87	26.00	05/27/87	20.00
POSSASS FLUORIDE	PPB	0.00	0.00	05/27/87	9480.00	05/19/87	9480.00	05/27/87	8720.00
POSSASS VANADIUM	PPB	100.00	0.00	05/27/87	9480.00	05/19/87	9480.00	05/27/87	8720.00
PPB SULFATE	PPB	500.00	500.00	05/27/87	5400.00	05/19/87	16700.00	05/27/87	3980.00
PPB TITANIUM	PPB	200.00	0.00	05/27/87	27600.00	05/19/87	7.84	05/27/87	7.68
PPB TOC	PPB	500.00	500.00	05/27/87	27600.00	05/19/87	7.72	05/27/87	7.68
PPB TRITIUM	PPB	5000.00	5000.00	05/27/87	30800.00	05/19/87	412.00	05/27/87	696.00

TABLE A.4. (contd)

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	SAMPLE DATE	2-E33-24	SAMPLE DATE	2-W6-1	SAMPLE DATE	2-W10-4
ALKALIN	AMMONIUM	PBB	50.00	06/27/87	94000.00 +	06/10/87	114000.00 +	06/18/87	158000.00 +
BETA		PC/L	3.00	06/27/87	391.00 %	06/27/87	165.00	06/18/87	57.00 %
		PBB	64.00	06/27/87	06/10/87	20.10	06/18/87	86.40 %	
		PC/L	50.00	06/27/87	{ 17.10 }	NR	{ 5.39 }	{ 8.89 }	
		PBB	05.00	05/27/87	386.00 %	05/27/87	{ 12.90 }	06/18/87	{ 5.22 }
CHLORID	CODFELD	PBB	50.00	06/27/87	3840.00	06/10/87	8760.00	06/18/87	17.00
FASERINI	FLUORIDI	PBB	5.00	06/27/87	251.00	06/10/87	NR	06/18/87	882.00
FLUORIDIUM	FLUORIDIUM	PBB	6.00	06/27/87	5.00	06/10/87	46.00	06/18/87	31.00
FMANGAN	MANGANESE	PBB	0.00	06/27/87	1400.00	06/10/87	24400.00	06/18/87	7750.00
FPOOTASS	FPOOTASS	PBB	5.00	06/27/87	5160.00	06/10/87	4900.00	06/18/87	3050.00
FSDODIUM	FSDODIUM	PBB	100.00	06/27/87	16900.00	06/10/87	13200.00	06/18/87	152000.00
FZNIC	FZNIC	PBB	5.00	06/27/87	19.00	06/10/87	17.00	06/18/87	54.00
HITRATE	HITRATE	PBB	500.00	06/27/87	18000.00	06/10/87	205000.00 *	06/18/87	229000.00 *
HFIELD	HFIELD	PBB	0.10	06/27/87	45000.00	06/10/87	205000.00 *	06/18/87	6.00
PHITRATE	PHITRATE	PBB	500.00	06/27/87	5.80	06/10/87	7.55	06/18/87	7.90
SLULFATE	SLULFATE	PBB	500.00	(5.0)	06/27/87	32900.00	06/10/87	33100.00	7.57
TDC	TDC	PBB	200.00	06/27/87	7.72	06/10/87	614.00 #	06/18/87	425.00
TOXIDL	TOXIDL	PBB	10.00	(5.0)	06/27/87	568.00	06/10/87	165.00	06/18/87
TRITIUM	TRITIUM	PC/L	500.00	(5.0)	06/10/87	52300.00 *	06/18/87	32.00 #	NR

TABLE A.4. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

- VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.

+ - ANALYSIS NOT REQUESTED OR NOT YET REPORTED

NR - ANALYSIS NOT AVAILABLE FOR COMPARISON

NR - COUNTING ERRORS FOR RADIONUCLEIDES

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	DETECTOR	WATER	STANDARD	LIMIT	UNITS	SAMPLE	DATE	2-W10-8	2-W10-9	SAMPLE	DATE	2-W12-1	
ALKALIN	PCT/L	PCB	3.00	50.00	05/29/87	131000.00	+	05/18/87	170000.00	+ 89.20	06/04/87	74400.00	+ 35.40	
BETA					05/29/87	7.65		05/18/87	170000.00	+ 89.20	06/04/87	74400.00	+ 35.40	
CHLORID	PPB	PPB	500.00	05/29/87	05/29/87	(3.47)	05/29/87	(3.29	05/18/87	(9.64)	06/04/87	(6.23)		
CHLIFORM	PPB	PPB	10.00	50.00	05/29/87	16.00		05/18/87	16.00	(5.00)	05/29/87	41.60	NR	
CHLORO	PPB	PPB	500.00	05/29/87	6510.00		05/18/87	18900.00	05/18/87	328.00	06/04/87	1206.00		
CONDFLD	PPB	PPB	1.00	05/29/87	05/29/87	(1.00)	05/29/87	05/18/87	05/18/87	328.00	06/04/87	19300.00		
CONDIDE	PPB	PPB	10.00	50.00	05/29/87	100.00		05/18/87	100.00	NR	06/04/87	100.00		
FARSENIT	PPB	PPB	5.00	50.00	05/29/87	05/29/87		05/18/87	16.00	NR	06/04/87	34.00		
FBARIUM	PPB	PPB	6.00	1000.00	NR		05/18/87	59.00	05/18/87	4500.00	06/04/87	94700.00		
FCALCIU	PPB	PPB	50.00	50.00	05/18/87	4500.00		05/18/87	4500.00	NR	06/04/87	4500.00	*	
FCHROMI	PPB	PPB	50.00	50.00	05/18/87	4500.00		05/18/87	4720.00	*	06/04/87	5900.00	*	
FFLUORID	PPB	PPB	50.00	1400.00	05/29/87	566.00		05/18/87	15400.00	NR	06/04/87	15400.00		
FMGANES	PPB	PPB	0.00	0.00	05/29/87	143.00		05/18/87	4720.00	*	06/04/87	5900.00	*	
FSODIUM	PPB	PPB	100.00	100.00	05/18/87	15400.00		05/18/87	15400.00	NR	06/04/87	15400.00		
FSTORTN	PPB	PPB	100.00	100.00	05/18/87	178000.00		05/18/87	178000.00	NR	06/04/87	150000.00		
FZINC	PPB	PPB	5.00	300.00	05/29/87	100.00		05/18/87	178000.00	NR	06/04/87	543.00		
LOALPHA	PCI/L	PPB	2.00	15.00	05/29/87	3.10		05/18/87	5.00	NR	06/04/87	23.00		
NITRATE	PPB	PPB	500.00	45000.00	05/29/87	(0.64)	(0.64)	05/18/87	132.00	%	NR			
PHFIELD			0.10	0.10	05/29/87	3000.00		05/18/87	324000.00	*	06/04/87	350000.00	*	
SLULFATE	PPB	PPB	500.00	500.00	05/29/87	40900.00		05/18/87	7.10	*	06/04/87	7.54		
TCLXLD			10.00	10.00	05/29/87	7.67		05/18/87	7.88	*	06/04/87	474.00		
TERANE	PPB	PPB	20.00	10.00	(5.0)	49600.00		05/18/87	19600.00	#	06/04/87	56100.00		
TRICINE	PPB	PPB	10.00	10.00	05/29/87	13.00	#	05/29/87	638.00	#	06/04/87	21.00		
TRITIUM	PCI/L	PPB	500.00	500.00	(5.0)	200000.00		NR	05/18/87	21.00	#	06/04/87	4710.00	

TABLE A.4. (cont'd)

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TABLE A.4. (contd)

NAME	CONSTITUENT	DETECTION UNITS	LIMIT	WATER STANDARD	SAMPLE DATE	2-W16-4	SAMPLE DATE	2-W16-10	SAMPLE DATE	2-W16-11
ALKALIN	AMMONIUM	PPB	50.00	50.00	05/28/87	168000.00 +	05/28/87	112000.00 +	05/28/87	124000.00 +
BETA		PCI/L	3.00	50.00	05/28/87	157.00	24.10	23.10	21.60	21.90
CHLORID		PPB	10.00	50.00	05/28/87	13900.00	05/28/87	16200.00	05/28/87	15100.00
CODFLD	UMHO	PPB	1.00	50.00	05/28/87	17.00	24.00	24.00	24.00	674.00
FARSENI		PPB	5.00	50.00	05/28/87	1768.00	05/28/87	5111.00	05/28/87	15100.00
FCALCIU		PPB	6.00	50.00	05/28/87	12.00	60.00	54.00	54.00	69.00
FCBARIUM		PPB	5.00	100.00	05/28/87	60	05/28/87	54360.00	05/28/87	78000.00
FIRON		PPB	50.00	1400.00	05/28/87	12500.00	*	05/28/87	17500.00	589.00
FUDORID		PPB	50.00	50.00	05/28/87	58.00	05/28/87	10.00	05/28/87	32.00
FUNGANS		PPB	0.00	0.00	05/28/87	11100.00	05/28/87	11100.00	05/28/87	22200.00
GOLDASS		PPB	100.00	100.00	05/28/87	7810.00	05/28/87	4860.00	05/28/87	5590.00
FSDIUM		PPB	100.00	300.00	05/28/87	361000.00	05/28/87	186000.00	05/28/87	27400.00
FSTRONT		PPB	5.00	100.00	05/28/87	7810.00	05/28/87	4860.00	05/28/87	328.00
FVANADI		PPB	5.00	300.00	05/28/87	209.00	05/28/87	22.00	05/28/87	23.00
LOALPFA		PCI/L	2.00	15.00	05/28/87	7.58	05/28/87	22.00	05/28/87	2.26
NITRATE		PPB	500.00	45000.00	05/28/87	677000.00 *	05/28/87	102000.00 *	05/28/87	{ 0.63 }
INDIMIE		PPB	10.00	10.00	05/28/87	680000.00 *	05/28/87	107000.00 *	05/28/87	121000.00 *
PHFIELD		PPB	0.10	0.10	05/28/87	40.00	05/28/87	NR	05/28/87	{ 0.63 }
SULFATE		PPB	500.00	382000.00	05/28/87	39600.00	05/28/87	2740.00 #	05/28/87	3210.00 #
TOC		PPB	10.00	10.00	05/28/87	1700.00	05/28/87	369.00	05/28/87	528.00
TOCLDL		PPB	20.00	200.00	05/28/87	369.00	05/28/87	2600.00	05/28/87	3300.00
TRICINE		PPB	10.00	(5.0)	05/28/87	1060.00	05/28/87	261000.00	05/28/87	10.00 #
WATER STANDARD(S) IN PARATHESSES ARE PROPOSED ONLY										
VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCIDES										
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED										
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON										
* - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.										
# - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.										

TABLE A.4. (contd)

TABLE A.4. (contd)

NAME	CONSTITUENT	UNITS	WATER	DETECTION	STANDARD	SAMPLE	DATE	2-W19-7	2-W19-1	SAMPLE	DATE	2-W19-3
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ALKALIN	BETTA	PCI/L	3.00	50.00	NR	06/10/87	108000.00	+ 04/20/87	8110.00	+ 252000.00	+ 494.00	
CHLORID	PPB	500.00	1.00	06/02/87	12600.00	06/10/87	2270.00	04/20/87	18500.00	04/20/87	704.00	CODALIDE
FARSENIT	PPB	5.00	50.00	06/10/87	16900.00	06/10/87	1688.00	06/10/87	16900.00	06/10/87	1688.00	FACALCIU
FARRENIUM	PPB	5.00	50.00	06/10/87	1600.00	06/10/87	15.00	06/02/87	12140.00	06/10/87	1400.00	FLUORIDE
FIRSON	PPB	50.00	50.00	06/10/87	1600.00	06/10/87	15.00	06/02/87	12140.00	06/10/87	1400.00	FIRANGAN
FMECUR	PPB	0.10	2.00	06/10/87	15.00	06/10/87	15.00	04/20/87	8986.66	% 9970.00	% 397.00	LOALPHA
FOTOASS	PPB	100.00	100.00	06/10/87	2890.00	06/10/87	0.12	04/20/87	8986.66	% 9970.00	% 397.00	FSDIUDI
FSDIUDI	PPB	100.00	100.00	06/10/87	2890.00	06/10/87	0.12	04/20/87	8986.66	% 9970.00	% 397.00	FAMANDI
FPCU	PPB	2.00	2.00	06/10/87	15.00	06/10/87	36.00	06/10/87	36.00	06/10/87	25000.00	FPCU
FPHIELD	PPB	0.10	0.10	06/10/87	NR	06/10/87	NR	04/20/87	NR	06/10/87	NR	RADIUM
NITRATE	PPB	500.00	45000.00	06/02/87	6400.00	06/10/87	1570.00	04/20/87	6990.00	% 383.00	% 7916.00	* 123.00
PHFIELD	PPB	0.10	0.10	06/10/87	NR	06/10/87	NR	04/20/87	NR	06/10/87	NR	SR 96
SR 96	PCI/L	5.00	5.00	06/10/87	NR	06/10/87	NR	04/20/87	6.00	06/10/87	{ 6.00}	SR 96
SLUFATE	PPB	600.00	15.00	06/02/87	40700.00	06/10/87	16600.00	04/20/87	70600.00	{ 1.00}	{ 26.90}	TC-99

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED

+ - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
- VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

* - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.

% - VALUE EXCEEDS SCREENING LEVEL FOR COMPARISON.

- ANALYSIS NOT REQUESTED OR NOT YET REPORTED

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

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TABLE A.4. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-W18-7	SAMPLE DATE	2-W19-1	SAMPLE DATE	2-W19-3
TETRANE	PPB	10.00	(5.0)	06/02/87	16.00 #			04/20/87	53.00 #
TOC	PPB	200.00		06/02/87	1130.00	06/10/87	620.00	04/20/87	541.00
TOXLDL	PPB	20.00			NR			04/20/87	45.40
TRITIUM	PCI/L	500.00	20000.00					04/20/87	1280.00
					NR		NR	05/10/87	{ 299.00}
					NR		NR	05/10/87	1300.00
					NR		NR	05/10/87	{ 257.00}
					NR		NR	05/10/87	1820.00
					NR		NR	04/20/87	{ 255.00}
U-CHEM	UG/L	0.73			NR		NR	04/20/87	13900.00
					NR		NR	05/10/87	11000.00
					NR		NR	05/10/87	11000.00

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- ** - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	DETECTION	LIMIT	STANDARD	WATER	SAMPLE	DATE	2-W19-9	DATE	2-W19-11
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TABLE A.4. (Contd)

ALKALIN	BETA	PCI/L	3.00	50.00	06/01/87	98800.00 +	06/01/87	161000.00 +	04/20/87	6970.00 +
CHLORID	CONDLF	PPB	1.00	50.00	06/01/87	4900.00	06/01/87	21800.00	04/20/87	718.00
FBARIUM	6.00	1000.00	06/01/87	19900.00	06/01/87	19900.00	06/01/87	19900.00	04/20/87	68.00
FCLACIU	FCLACIU	PPB	6.00	1000.00	06/01/87	19.00	NR	NR	04/20/87	68.00
FICRO	FICPER	PPB	(1300.0)	(1300.0)	06/01/87	19900.00	06/01/87	19900.00	04/20/87	58100.00
FMANGAN	FMANGAN	PPB	0.00	1400.00	06/01/87	6440.00	06/01/87	6440.00	04/20/87	18300.00
FOLDRID	FOLDRID	PPB	500.00	1400.00	06/01/87	197.00	06/01/87	607.00	04/20/87	11.00
FVANDMI	FVANDMI	PPB	100.00	500.00	06/01/87	3240.00	06/01/87	23400.00	04/20/87	5700.00
FPHFLASS	FPHFLASS	PPB	5.00	50.00	06/01/87	21.00	NR	NR	04/20/87	74000.00
FZINC	FZINC	PPB	5.00	50.00	06/01/87	16.00	NR	NR	04/20/87	74000.00
LOALPHA	LOALPHA	PCI/L	2.00	15.00	06/01/87	6.81	06/01/87	6.81	04/20/87	28.00
NITRATE	PBP	500.00	45000.00	06/01/87	4900.00	06/01/87	13900.00	04/20/87	36200.00 %	{ 259.00 }
PHFIELD	PHFIELD	0.10	5.00	06/01/87	5620.00	06/01/87	136000.00 *	04/20/87	136000.00 *	{ 105000.00 }
RADIUM	RADIUM	PCI/L	0.10	5.00	06/01/87	7.50	06/01/87	7.20	04/20/87	7.70
SULFATE	SULFATE	PCI/L	500.00	100000.00	06/01/87	46900.00	06/01/87	21300.00 *	04/20/87	118000.00 *
TETRANE	TETRANE	PBP	10.00	(5.0)	200.00	(5.0)	06/01/87	342.00	04/20/87	63200.00
TC-99	TC-99	PCl/L	15.00	100000.00	06/01/87	21300.00 *	06/01/87	7.65	04/20/87	7.45
WATER STANDARD	*	- VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.	*	- ANALYSIS NOT REQUESTED OR NOT YET REPORTED	*	- DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON	*	- ANALYSIS NOT REQUESTED OR NOT YET REPORTED	*	WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

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TABLE A.4. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-W19-5	SAMPLE DATE	2-W19-9	SAMPLE DATE	2-W19-11
TOXLDL TRITIUM	PPB PCI/L	20.00 500.00	20000.00			06/01/87	46.30 NR	04/20/87 04/20/87	66.00 922.00 { 291.00}
					NR		NR	05/10/87	1080.00 { 253.00}
					NR		NR	06/10/87	1710.00 { 255.00}
U-CHEM	UG/L	0.73			NR NR NR	05/15/87 06/01/87	7550.00 4230.00 NR	04/20/87 05/10/87 06/10/87	7820.00 7250.00 4760.00

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	DETECTION UNITS	WATER LIMIT	SAMPLE DATE	2-W19-13	SAMPLE DATE	2-W19-16	CONSTITUENT	DETECTION UNITS	WATER LIMIT	SAMPLE DATE	2-W19-16
ALKALIN	PCl/L	3.00	50.00	04/20/87	163000.00 +	04/17/87	163000.00 +	04/17/87	18.10	{ 3.12 }	04/17/87
BETA	PCl/L	3.00	50.00	04/20/87	163000.00 +	04/17/87	163000.00 +	04/17/87	2130.00	{ 306.00 }	04/17/87
CHLORID	PPB	500.00	1000.00	04/20/87	16900.00	04/20/87	16900.00	04/20/87	1650.00	{ 271.00 }	04/17/87
CONDFLD	PPB	1.00	6.00	04/20/87	419.00	04/17/87	655.00	04/17/87	49.00	{ 39.00 }	04/17/87
FBARIUM	PPB	6.00	50.00	04/20/87	48400.00	04/20/87	48400.00	04/20/87	73300.00	{ 32.70 }	04/17/87
FIRDON	PPB	50.00	50.00	04/20/87	14700.00	04/20/87	14700.00	04/20/87	61.00	{ 44.00 }	04/17/87
MANGAN	PPB	5.00	5.00	04/20/87	27400.00	04/20/87	27400.00	04/20/87	2020.00	{ 13.40 }	04/17/87
FSELENI	PPB	100.00	10.00	04/20/87	4800.00	04/20/87	4800.00	04/20/87	10.00	{ 1.14 }	04/17/87
FSDODIUM	PPB	5.00	100.00	04/20/87	27500.00	04/20/87	27500.00	04/20/87	18.00	{ 9.71 }	05/10/87
FZINC	PPB	5.00	5.00	04/20/87	33900.00	04/20/87	33900.00	04/20/87	33900.00	{ 9.66 }	06/10/87
LOALPHA	PCl/L	2.00	15.00	04/20/87	11.60	04/20/87	11.60	04/20/87	20.00	{ 1.21 }	06/10/87
NITRATE	PPB	500.00	450000.00	04/20/87	23200.00	04/17/87	23200.00	04/17/87	134.00	{ 1.15 }	04/17/87
PFILED	PPB	0.10	0.10	04/20/87	21700.00	05/10/87	101000.00 *	05/10/87	2170.00	{ 1.16 }	06/10/87
SULFATE	PPB	500.00	500.00	04/20/87	65400.00	04/17/87	65400.00	04/17/87	7.67	{ 7.30 }	04/17/87
TETRANE	PPB	10.00	(5.0)	04/20/87	50800.00	04/17/87	50800.00	04/17/87	7.50	{ 32.40 }	04/17/87
TOXLDL	PPB	200.00	200.00	04/20/87	324.00	04/17/87	324.00	04/17/87	31.80	{ 31.80 }	04/17/87
PHFIELD	PPB	426.00	*	04/17/87	599.00	04/17/87	599.00	04/17/87	426.00	{ 426.00 }	04/17/87
# - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.					101.00	04/17/87	101.00	04/17/87	101.00	{ 101.00 }	04/17/87
* - ANALYSIS NOT AVAILABLE FOR FURTHER INVESTIGATION.					34800.00	04/17/87	34800.00	04/17/87	34800.00	{ 34800.00 }	04/17/87
+ - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.					16000.00	04/17/87	16000.00	04/17/87	16000.00	{ 16000.00 }	04/17/87
- - - - -					1440.00	04/17/87	1440.00	04/17/87	1440.00	{ 1440.00 }	04/17/87
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY					11600.00	04/17/87	11600.00	04/17/87	11600.00	{ 11600.00 }	04/17/87
VALUES IN () ARE COUNTING ERRORS FOR RADIONUCLEIDES					1530.00	06/10/87	1530.00	06/10/87	1530.00	{ 1530.00 }	06/10/87
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED					2120.00	05/10/87	2120.00	05/10/87	2120.00	{ 2120.00 }	05/10/87

TABLE A.4. (contd)

NAME	CONSTITUENT	DETECTION	WATER	SAMPLE	SAMPLE DATE	2-W22-12	2-W22-26	SAMPLE DATE	2-W22-22
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ALKALIN	BETA	PCl/L	3.00	50.00	05/28/87	116000.00 +	05/28/87	133000.00 +	04/16/87	108000.00 +
CHLIFORM	PPB	10.00	50.00	05/28/87	{ 3.24 }	{ 6.56 }	05/28/87	{ 2.00 }	{ 4.93 }	{ 1.78 }
CHLORID	PPB	500.00	1.00	05/28/87	6160.00	05/28/87	29700.00	04/16/87	15200.00	305.00
CONDFLD	UMHO	500.00	1.00	05/28/87	6160.00	05/28/87	29700.00	04/16/87	15200.00	305.00
CHLORIDE	PPB	10.00	50.00	05/28/87	12.00	05/28/87	825.00	04/16/87	32000.00	70.00
FIRON	PPB	50.00	50.00	05/28/87	NR	NR	NR	04/16/87	10300.00	15.00
FMANGAN	PPB	0.00	5.00	05/28/87	NR	NR	NR	04/16/87	10300.00	15.00
FPOSS	PPB	100.00	5.00	05/28/87	NR	NR	NR	04/16/87	3730.00	15.00
FVANDIUM	PPB	1000.00	50.00	05/28/87	NR	NR	NR	04/16/87	13200.00	13200.00
LOALPHA	PCl/L	2.00	15.00	05/28/87	16.30 %	05/28/87	{ 4.77 }	04/16/87	1460.00	942.00
NITRATE	PPB	500.00	45000.00	05/28/87	3560.00	05/28/87	123000.00 *	04/16/87	1460.00	942.00
PHFIELD	0.10	5.00	05/28/87	3320.00	05/28/87	7.36	05/28/87	04/16/87	2820.00	2820.00
RADIUM	PCl/L	0.10	5.00	05/28/87	8.16	05/28/87	7.36	05/28/87	04/16/87	7.30
PHFIELD	0.10	5.00	05/28/87	3320.00	05/28/87	7.36	05/28/87	04/16/87	2820.00	2820.00
SULFATE	PPB	500.00	19900.00	05/28/87	149000.00	05/28/87	19800.00	04/16/87	19800.00	19800.00
TOXANE	PPB	10.00	(5.0)	05/28/87	299.00	05/28/87	11.00 #	04/16/87	296.00	296.00
TOXDL	PPB	200.00	(5.0)	05/28/87	622.00	05/28/87	622.00	04/16/87	296.00	296.00
TRICINE	PCl/L	500.00	20000.00	(5.0)	17600.00	05/28/87	262000.00	04/16/87	2050.00	2050.00
WATER	PCl/L	0.73	NR	NR	NR	NR	NR	NR	0.76	0.73

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.

+ - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.
NR - ANALYSIS LIMIT WAS NOT AVAILABLE FOR COMPARISON.

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCCLIDES

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NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	SAMPLE DATE	2-W22-26	SAMPLE DATE	2-W23-1	SAMPLE DATE	2-W23-3
ALKALIN	BETTA	PCI/L	3.00	50.00	06/01/87	99800.00 +	06/09/87	99900.00 %	06/11/87
					{ 5.00 }	{ 26.10 }	{ 8.78 }		{ 7.07 }
CHLORID	UMHO	PPB	500.00	5740.00	06/01/87	5740.00	06/09/87	4960.00	06/11/87
					{ 3.49 }				{ 4.99 }
CONDIFLD	FBARIUM	PPB	6.00	1000.00	06/01/87	25.00	06/09/87	29.00	06/11/87
					{ 0.00 }	{ 23.00 }	{ 0.00 }	{ 15.00 }	{ 15.00 }
FLUORID	FIRON	PPB	50.00	1400.00	06/09/87	74.00	06/09/87	671.00	06/11/87
FOTASS	FONATUM	PPB	100.00	7390.00	06/01/87	3500.00	06/09/87	3460.00	06/11/87
					{ 0.00 }	{ 06/01/87 }	{ 0.00 }	{ 21500.00 }	{ 21500.00 }
FZNIC	HINTRA	PPB	5.00	45000.00	06/01/87	28.00	06/09/87	22.00	06/11/87
					{ 0.00 }	{ 06/01/87 }	{ 0.00 }	{ 38.00 }	{ 38.00 }
LOALPHA	NITRATE	PCl/L	2.00	45000.00	06/01/87	4.86	06/09/87	8.64	06/11/87
					{ 1.11 }	{ 0.29 }	{ 0.29 }	{ 2.68 }	{ 1.35 }
RADIUM	PCl/L	0.10	5.00	06/01/87	15.00	06/09/87	7.69	06/11/87	7.61
					{ 0.14 }	{ 0.14 }	{ 0.14 }	{ NR }	{ NR }
PHFIELD	NITRATE	PPB	500.00	45000.00	06/01/87	12700.00	06/09/87	8630.00	06/11/87
					{ 1.11 }	{ 0.29 }	{ 0.29 }	{ 5420.00 }	{ 5420.00 }
SLFATE	TOCl	PPB	500.00	20000.00	06/01/87	17100.00	06/09/87	15100.00	06/11/87
					{ 0.14 }	{ 0.14 }	{ 0.14 }	{ 3720.00 }	{ 4190.00 }
TRITIUM	PCl/L	PPB	500.00	20000.00	06/01/87	19800.00	06/09/87	19400.00	06/11/87
					{ 0.14 }	{ 0.14 }	{ 0.14 }	{ 3720.00 }	{ 294.00 }

TABLE A.4. (cont'd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- ANALYSIS NOT AVAILABLE FOR COMPARISON.

+ - DETECTION LIMIT WAS NOT YET REPORTED OR NOT YET REPRODUCED.

% - VALUE EXCEEDS SCREENTING WATER STANDARD.

NR - ANALYSIS IN { } ARE COUNTING ERRORS FOR RADIONUCIDES

VALUES IN { } IN PARENTHESES ARE PROPOSED ONLY.

NAME	CONSTITUENT UNITS	DETECTOR	LIMIT	WATER STANDARD	SAMPLE	2-W23-7	SAMPLE	2-W23-10	SAMPLE	2-W23-11
ALKALIN	PCL/L	3.00	50.00	06/09/87	94500.00 +	04/17/87	118000.00 +	06/04/87	100000.00 +	+ 10.40
BETA	PCL/L	500.00	100000.00 +	06/09/87	736.00 %	04/17/87	23.90	04/19/87	10.40	-
CHLORIDE	PBB	500.00	NR	04/17/87	(3.66)	04/17/87	34.40	05/15/87	(2.31)	-
FARSENIT	PBB	6.00	NR	05/10/87	(5.90)	05/10/87	34.00	06/04/87	10.30	-
FLUORIDE	PBB	10.00	NR	06/09/87	(3.82)	04/17/87	654.00	06/04/87	3610.00	-
FACLAUTM	PBB	6.00	NR	06/09/87	(4.36)	04/17/87	2730.00	06/04/87	69.00	-
FLUOROMI	PBB	10.00	NR	06/09/87	(3.82)	04/17/87	28200.00	06/04/87	28.00	-
FMANGAN	PBB	0.00	NR	06/09/87	(3.79)	04/17/87	561.00	06/04/87	9640.00	-
FMERCRU	PBB	6.00	NR	06/09/87	(3.79)	04/17/87	5630.00	06/04/87	3390.00	-
FPOOTASS	PBB	100.00	2.00	06/09/87	(1.16)	04/17/87	4220.00	06/04/87	6.00	-
FSELENIT	PBB	5.00	NR	06/09/87	(1.16)	04/17/87	6530.00	06/04/87	3390.00	-
FSDODIUM	PBB	1000.00	10.00	06/09/87	(1.16)	04/17/87	26700.00	06/04/87	10800.00	-
FZNINC	PBB	5.00	NR	06/09/87	(1.16)	04/17/87	22.00	06/04/87	26.00	-
LOALPHA	PCI/L	2.00	15.00	06/09/87	(1.05)	04/17/87	29.70 %	04/19/87	19.60 %	-
NITRATE	PBB	500.00	0.10	06/09/87	51200.00 *	04/17/87	2290.00	06/04/87	19400.00	1.82 %
PHFILED	PBB	500.00	0.10	06/09/87	51200.00 *	04/17/87	2290.00	06/04/87	19400.00	2.20 %
SULFATE	PBB	500.00	0.10	06/09/87	7.59	04/17/87	7.40	06/04/87	7.69	-
TOC	PBB	2000.00	06/09/87	281000.00	NR	04/17/87	15800.00	06/04/87	395.00	-
TRITIUM	PCI/L	500.00	0.10	06/09/87	120000.00 *	04/17/87	771000.00	06/04/87	28500.00	1.920.00 *

TABLE A.4. (contd.)

9 1 1 1 3 3 2 1 4 1 1

TABLE A.4. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-W23-7	SAMPLE DATE	2-W23-10	SAMPLE DATE	2-W23-11
U-CHEM	UG/L	0.73			NR NR NR	04/17/87 05/10/87	42.30 61.10 NR	04/19/87 05/15/87 06/09/87	28.30 31.60 24.30

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- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
- WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	DETCTION UNITS	WATER LIMIT	STANDARD	SAMPLE DATE	2-W27-1	SAMPLE DATE	6-2-3	SAMPLE DATE	6-2-33A
CHLORIDE	PBB	500.00	1.00	1000.00	04/17/87	2090.00	06/03/87	10600.00	06/03/87	5900.00
FARSSEN	PBB	5.00	50.00	50.00	04/17/87	680.00	06/03/87	364.00	06/03/87	311.00
FBARIUM	PBB	6.00	1000.00	04/17/87	39.00	06/03/87	48.00	47400.00	NR	NR
FCALCIU	PBB	60.00	50.00	04/17/87	54600.00	06/03/87	48.00	47400.00	NR	NR
FCROMI	PBB	0.00	10.00	04/17/87	13.00	04/17/87	14400.00	12000.00	06/03/87	NR
FSELENTI	PBB	100.00	5.00	100.00	04/17/87	64.00	06/03/87	6480.00	06/03/87	NR
FPTOTASS	PBB	100.00	0.00	100.00	04/17/87	6360.00	06/03/87	12000.00	06/03/87	NR
FVANADI	PBB	5.00	100.00	04/17/87	38200.00	06/03/87	20200.00	13.00	04/17/87	NR
ZINC	PBB	5.00	5.00	100.00	04/17/87	15.00	06/03/87	20200.00	04/17/87	NR
LOALPHA	PCl/L	2.00	15.00	04/17/87	6.08	06/03/87	6.08	6.08	04/17/87	NR
NITRATE	PPB	500.00	45000.00	04/17/87	28800.00	06/03/87	28800.00	* 06/03/87	3230.00	NR
PHFIELD	PCl/L	0.10	0.10	04/17/87	118000.00	06/03/87	118000.00	06/03/87	6.90	NR
RADIUM	PCl/L	0.10	5.00	04/17/87	7.50	06/03/87	7.20	7.60	06/03/87	7.34
SULFATE	PPB	500.00	20000.00	04/17/87	10900.00	06/03/87	51800.00	06/03/87	32700.00	NR
TOC	PPB	200.00	500.00	04/17/87	349.00	06/03/87	7516.00	06/03/87	536.00	NR
TRITIUM	PCl/L	500.00	20000.00	04/17/87	10900.00	06/03/87	1510.00	06/03/87	32700.00	NR
WATER STANDARD(S) IN PARENTHESSES ARE PROPOSED ONLY										
VALUES IN [] ARE COUNTING ERRORS FOR RADIONUCIDES										
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED										
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.										
# - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.										
* - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.										

TABLE A.4. (contd)

NAME	CONSTITUENT	DETECTION	WATER LIMIT	STANDARD	SAMPLE DATE	6-9-E2	SAMPLE DATE	6-15-26	
ALKALIN	AMMONIUM	PPB	50.00	06/03/87	151000.00 +	06/08/87	130000.00 +	06/02/87	147000.00 +
BETA	PC/L	3.00	50.00	06/03/87	25.50	06/08/87	9.78	06/02/87	26.10
CHLORID	UMHO	PPB	500.00	06/03/87	25200.00	06/08/87	4600.00	06/02/87	9440.00
CODFLD	FARSINI	PPB	5.00	06/03/87	433.00	06/08/87	305.00	06/02/87	416.00
FARUM	PPB	6.00	10000.00	06/03/87	8.00	06/08/87	14.00	06/02/87	8.00
FCLACIU	PPB	500.00	06/03/87	50600.00	06/08/87	24900.00	06/02/87	49600.00	50.00
FMDGANS	PPB	5.00	0.00	06/03/87	13300.00	06/08/87	10200.00	06/02/87	12900.00
FMDGANS	PPB	500.00	14000.00	06/03/87	51.20	06/08/87	54.00	06/02/87	57.00
FMDGNDI	PPB	100.00	06/03/87	7020.00	06/08/87	23600.00	06/08/87	06/02/87	24800.00
FMDGNDI	PPB	5.00	06/03/87	15.00	06/08/87	5.00	06/02/87	9.00	NR
LOALPRA	PCI/L	2.00	15.00	06/03/87	3.35	NR	59.00 +	06/02/87	3.58
MOLSLUF	PPB	500.00	45000.00	06/03/87	20800.00	06/08/87	1940.00 +	06/02/87	23600.00
NITRATIE	PPB	500.00	06/03/87	NR	06/08/87	23.00 +	06/02/87	NR	{ 1.75 }
NONACD	PPB	0.10	06/03/87	7.40	06/08/87	36.00 +	06/02/87	7.30	NR
PHFIELD	PPB	500.00	06/03/87	7.40	06/08/87	7.40	06/02/87	7.30	NR
SOULFATE	PPB	500.00	06/03/87	37100.00 *	06/08/87	1700.00	06/02/87	386.00	51300.00
TOC	PPB	500.00	06/03/87	31200.00	06/08/87	29200.00	06/02/87	7.59	NR
TRITIUM	PCI/L	500.00	20000.00	06/03/87	373.00	06/08/87	1700.00	06/02/87	60400.00
UNKNOWN	PPB	0.00	0.00	06/03/87	72.00	NR	06/02/87	NR	{ 974.00 }

TABLE A-4. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - ANALYSIS EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 % - DETECTION LIMIT WAS NOT AVAILABLE FOR REPORTED COMPARISON.

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 NR - ANALYSIS IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES

WATER STANDARD(S) IN PARATHESIS ARE PROPOSED ONLY

NAME	CONSTITUENT	DETECTION UNITS	LIMIT	WATER STANDARD	SAMPLE DATE	6-20-E5A	SAMPLE DATE	6-20-20	SAMPLE DATE	6-26-39
ALKALIN	BETA	PCI/L	3.00	50.00 +	06/09/87	114000.00 +	06/02/87	111000.00 +	06/11/87	125000.00 +
CHLORID	UMHO	PPB	500.00	06/09/87	8750.00	06/02/87	14900.00	06/11/87	4740.00	270.00
CONDFLD	FARSENI	PPB	5.00	50.00	06/09/87	337.00	06/02/87	385.00	06/11/87	4740.00
FIRDN	PPB	50.00	06/09/87	40900.00	06/02/87	51300.00	06/11/87	35100.00	84.00	505.00
FLUDRID	PPB	500.00	06/09/87	1400.00	06/02/87	804.00	06/11/87	10500.00	10500.00	16.00
FMANGANS	PPB	5.00	06/09/87	10500.00	06/02/87	11100.00	06/11/87	10500.00	10500.00	16.00
FZNAGDI	PPB	100.00	06/09/87	5200.00	06/02/87	7520.00	06/11/87	48100.00	48100.00	15400.00
FSDODIUM	PPB	10.00	06/09/87	12300.00	06/02/87	22100.00	06/11/87	15400.00	15400.00	5.00
FZNALPFA	PPB	5.00	06/09/87	16.00	06/02/87	17.00	06/11/87	15400.00	15400.00	5.00
NITRATE	PPB	500.00	06/09/87	45000.00	06/02/87	24600.00	06/11/87	38500.00	4470.00	7.40
PHFIELD	PPB	0.10	06/09/87	1.50	06/02/87	2.59	06/11/87	2.77	(1.41)	
SULFATE	PPB	500.00	06/09/87	7.30	06/02/87	7.56	06/11/87	7.56	7.72	
TOC	PPB	200.00	06/09/87	30500.00	06/02/87	57300.00	06/11/87	27200.00	27200.00	264.00
TRITIUM	PCI/L	500.00	06/09/87	20000.00	06/02/87	64100.00 *	06/11/87	195000.00 *	195000.00 *	NR

WATER STANDARD(S) IN PARENTHESIS ARE PROPOSED ONLY
VALUES IN () ARE COUNTING ERRORS FOR RADIONUCIDES

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED

+ - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

- VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.

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9 1 1 1 9 3 9 1 4 1 9

TABLE A.4. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-24-83	SAMPLE DATE	6-28-84	SAMPLE DATE	6-29-84
1,1,1-T ALKALIN BETA	PPB	10.00	(200.0)	05/14/87	17.00			06/09/87	120000.00 +
	PCI/L	3.00	50.00	05/14/87	189000.00 *			06/09/87	37.60 { 5.81}
				05/14/87	23.00			NR	NR
					{ 4.98}			06/09/87	NR
				06/02/87	23.20			NR	
					{ 3.55}				
CHLORID	PPB	500.00		05/14/87	7730.00			06/09/87	8990.00
CONDFLD	UMHO	1.00		05/14/87	442.00			06/09/87	370.00
FARSENI	PPB	5.00	50.00	05/14/87	56.00			06/09/87	6.00
FBARIUM	PPB	6.00	1000.00	05/14/87	63700.00			06/09/87	66.00
FCALCIU	PPB	50.00		05/14/87	15000.00			06/09/87	46900.00
FMAGNES	PPB	0.00		05/14/87	1530.00			06/09/87	10400.00
FPOTASS	PPB	100.00		05/14/87	7330.00			06/09/87	5970.00
FSODIUM	PPB	100.00		05/14/87	24000.00			06/09/87	14400.00
FVANADI	PPB	5.00		05/14/87	16.00			06/09/87	13.00
LOALPHA	PCI/L	2.00	15.00	05/14/87	3.60			06/09/87	4.24 { 1.61}
					{ 1.91}				
NITRATE	PPB	500.00	45000.00	05/14/87	26400.00			06/09/87	30300.00
PHFIELD		0.10		05/14/87	6.90			06/09/87	7.30
				05/14/87	7.26			06/09/87	7.59
SULFATE	PPB	500.00		05/14/87	41800.00			06/09/87	32000.00
TOC	PPB	200.00		05/14/87	562.00			06/09/87	411.00
TOXLDL	PPB	20.00		05/14/87	23.80				
TRITIUM	PCI/L	500.00	20000.00	05/14/87	68500.00 *			06/09/87	135000.00 *
					{ 990.00}				{ 1210.00}
						05/12/87	11200.00		
							{ 479.00}		

A.43

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
- WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

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TABLE A.4. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-32-22	SAMPLE DATE	6-33-42	SAMPLE DATE	6-33-56
ALKALIN BETA	PCI/L	3.00	50.00	06/23/87 06/23/87	110000.00 + 39.50 { 6.44}		NR NR		NR NR
CHLORID	PPB	500.00		06/23/87	11100.00		NR		NR
CONDFLD	UMHO	1.00		06/23/87	316.00	05/12/87	295.00	05/12/87	372.00
FBARIUM	PPB	6.00	1000.00	06/23/87	38.00		NR		NR
FCALCIU	PPB	50.00		06/23/87	37600.00		NR		NR
FMAGNES	PPB	0.00		06/23/87	9760.00		NR		NR
FPOTASS	PPB	100.00		06/23/87	5730.00		NR		NR
FSODIUM	PPB	100.00		06/23/87	26000.00		NR		NR
FVANADI	PPB	5.00		06/23/87	15.00		NR		NR
LOALPHA	PCI/L	2.00	15.00				NR	05/12/87	3.46 { 0.80}
METHYCH	PPB	10.00		06/23/87	35.00				
NITRATE	PPB	500.00	45000.00	06/23/87	30300.00		NR		NR
PHFIELD		0.10		06/23/87	7.40	05/12/87	7.60	05/12/87	7.30
				06/23/87	7.69		NR		NR
SULFATE	PPB	500.00		06/23/87	45300.00		NR		NR
TOC	PPB	200.00		06/23/87	357.00		NR		NR
TRITIUM	PCI/L	500.00	20000.00	06/22/87	272000.00 * { 1950.00}	05/12/87	280000.00 * { 1960.00}		

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44

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	DETCTION UNITS	WATER LIMIT	STANDARD	SAMPLE DATE	6-34-42	SAMPLE DATE	6-34-51	SAMPLE DATE	6-35-9
ALKALIN	BETTA	PCI/L	3.00	50.00	NR	NR	06/11/87	39.20	12100.00	+ 6.53 }
CHLORID	CONDIFLD	PPB	500.00	1.00	NR	NR	06/11/87	13300.00	225.00	{ 39.20 }
FBARIUM	URWHO	PPB	500.00	100.00	05/12/87	262.00	05/12/87	371.00	06/11/87	{ 6.53 }
CHLORID	CHLORIDE	PPB	500.00	6.00	NR	NR	06/11/87	13300.00	225.00	{ 39.20 }
ALKALIN	ALKALIN	PCI/L	-----	-----	-----	-----	-----	-----	-----	-----
FOTASS	FOTASS	PPB	0.00	100.00	05/12/87	1000.00	05/12/87	1000.00	06/11/87	11000.00
FOTASS	FOTASS	PPB	0.00	100.00	05/12/87	1000.00	05/12/87	1000.00	06/11/87	11000.00
FMANES	FMANES	PPB	50.00	100.00	NR	NR	06/11/87	100.00	06/11/87	4920.00
FZINC	FZINC	PPB	5.00	100.00	NR	NR	06/11/87	100.00	06/11/87	12.00
L0ALPHA	L0ALPHA	PCI/L	2.00	15.00	NR	NR	06/11/87	15.00	06/11/87	3.33
NITRATE	PHFIELD	PPB	500.00	45000.00	05/12/87	7.70	05/12/87	7.30	06/11/87	35400.00
SULFATE	T0C	PPB	500.00	20000.00	05/12/87	NR	NR	NR	06/11/87	42100.00
TRITIUM	TRITIUM	PCI/L	500.00	20000.00	05/12/87	549.00	05/12/87	541.00	06/11/87	188000.00

TABLE A.4. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 % - ANALYSIS NOT AVAILABLE FOR COMPARISON.
 + - DETECTION LIMIT WAS NOT VET REPORTED
 NR - COUNTING ERRORS FOR RADIONUCIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
 VALUES IN () ARE COUNTING ERRORS FOR RADIONUCIDES

NAME	CONSTITUENT	DETCTION	WATER LIMIT	UNITS	STANDARD	SAMPLE DATE	SAMPLE DATE	SAMPLE DATE
BETA	PC/L	3.00	50.00	NR	04/06/87	5.05	NR	NR
CONDFLD	UMHO	1.00	15.00	05/12/87	387.00	04/06/87	201.00	05/13/87
LOALPHA	PC/L	2.00	NR	NR	06/04/87	7.95	NR	NR
PHFIELD	PCI/L	0.10	20000.00	05/12/87	7.00	06/04/87	1.57	05/13/87
TRITIUM	PCI/L	500.00	20000.00	05/12/87	1330000.00*	05/13/87	6.20	NR
U-CHEM	UG/L	0.73	NR	NR	04/06/87	8.38	06/04/87	13.90
					{ 4270.00 }		06/08/87	11.50
							06/04/87	13.90

9 1 1 1 1 8 3 9 1 4 2 5
TABLE A.4. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
% - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	UNITS	DETECTOR	LIMIT	SAMPLE	DATE	6-38-65	SAMPLE	DATE	6-39-79	SAMPLE	DATE	6-40-1
ALKALIN	BETA	3.00	PPB	50.00	05/13/87	1229000.00	+	05/14/87	97000.00	+	06/09/87	1222000.00	+ 64.90 %
CHLORIDI	UMHO	500.00	PPB	05/13/87	88100.00	{ 4.39 }	(3.65)	05/14/87	11.00	06/09/87	64.90 %	(7.35)	
CONDIFLD	FBARIUM	1.00	PPB	1000.00	05/13/87	594.00	05/14/87	199.00	06/09/87	37.90 .00	06/09/87	67.00	
PCITRI	FLACLU	50.00	PPB	05/13/87	66500.00	05/14/87	19800.00	06/14/87	1400.00	06/09/87	43800.00	06/09/87	
FPTOTASS	FSODIUM	100.00	PPB	05/13/87	6460.00	05/14/87	2830.00	06/14/87	5340.00	06/09/87	122000.00	06/09/87	
FPTOTART	FVANDAI	300.00	PPB	05/13/87	26100.00	05/14/87	21000.00	06/14/87	311.00	06/09/87	19000.00	06/09/87	
LOALPHIA	FZINC	5.00	PPB	05/13/87	29.00	05/14/87	17.00	06/14/87	17.00	06/09/87	303.00	06/09/87	
NITRATE	PPB	500.00	45000.00	05/13/87	147000.00	*	05/14/87	5.95	06/09/87	4.65	(1.79)	(1.79)	
PHFILED	PPB	0.10	05/13/87	NR	05/14/87	1240.00	06/09/87	06/09/87	392000.00	392000.00	401000.00	401000.00	
SULFAFE	TETRANE	10.00	PPB	05/13/87	28100.00	05/14/87	7.82	06/14/87	7.72	06/09/87	382000.00	382000.00	
TOXLDL	PPB	20.00	05/13/87	1320.00	05/14/87	26.20	06/14/87	457.00	774.00	06/09/87	774.00	774.00	
TRITIUM	PCI/L	500.00	20000.00	05/13/87	344000.00	*	06/14/87	81.40	06/09/87	2360000.00	2360000.00	* { 1830.00 }	

TABLE A.4. (contd)

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NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	STANDARD	SAMPLE DATE	6-40-33A	SAMPLE DATE	6-43-88	SAMPLE DATE	6-45-69A
ALKALIN AMMONIUM	PPB	50.00	3.00	50.00	06/11/87	167000.00 +	86500.00 +			
CHLORID CONDFLD	PPB	500.00	1.00	50.00	06/11/87	3550.00 { 4.11 }	15900.00	314.00	06/13/87	401.00
FARSENIT FBARIUM	PPB	5.00	1.00	1000.00	06/11/87	10.00	06/22/87	10.00	06/22/87	NR
FLUORID FIRON	PPB	50.00	1400.00	1400.00	06/11/87	1060.00	221.00	38800.00	06/13/87	NR
MANGANESE FMANGAN	PPB	0.00	0.00	06/11/87	4120.00	4120.00	06/22/87	14.00	06/22/87	NR
PHOSPHATE FPOSS	PPB	5.00	100.00	100.00	06/11/87	46.00	06/22/87	14.00	06/22/87	NR
PHFIELD PHFIELD	PPB	500.00	0.10	45000.00	06/11/87	6.80	06/22/87	26700.00	06/13/87	5.90
SULFATE SOFC	PPB	500.00	200.00	500.00	06/11/87	663.00	06/22/87	40700.00	06/22/87	NR

TABLE A.4. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 ** - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 # - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 NR - VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCIDES
 NR - WATER STANDARD(S) IN PARENTHESIS ARE PROPOSED ONLY

NAME	CONSTITUENT	UNITS	DETECTION	WATER	STANDARD	SAMPLE DATE	6-48-7	SAMPLE DATE	6-48-18	SAMPLE DATE	6-48-71
ALKALIN	AMMONIUM	PPB	50.00	3.00	50.00	06/23/87	87100.00 +	06/23/87	121000.00 +	06/23/87	104000.00 +
CHLORID	CNDFLD UMH0	PPB	500.00	1.00	500.00	06/23/87	3410.00	06/12/87	10200.00	06/23/87	6930.00 { 5.16 }
FERRIUM	FBDIMU	PPB	6.00	1000.00	1000.00	06/23/87	181.00	06/12/87	309.00	06/23/87	256.00
FACLMU	FACLMU	PPB	2.00	10.00	10.00	06/23/87	29.00	06/12/87	30.00	06/23/87	26.00
FRTON	FRTON	PPB	50.00	0.00	0.00	06/23/87	27200.00	06/12/87	46800.00	06/23/87	32600.00
FMLNGES	FMLNGES	PPB	0.00	100.00	100.00	06/23/87	7180.00	06/12/87	14000.00	06/23/87	12900.00
FSDDIUM	FSDDIUM	PPB	100.00	0.00	0.00	06/23/87	1860.00	06/12/87	6350.00	06/23/87	3740.00
FSRONT	FSRONT	PPB	300.00	100.00	100.00	06/23/87	8616.00	06/12/87	15000.00	06/23/87	10900.00
FZINC	FZINC	PPB	6.00	0.00	0.00	06/23/87	301.00	06/12/87	17.00	06/23/87	27.00
L0ALPHA	L0ALPHA	PCl/L	2.00	15.00	15.00	06/23/87	6.00	06/12/87	19.00	06/23/87	27.00
NITRATE	NITRATE	PPB	500.00	45000.00	4500.00	06/23/87	4590.00	06/12/87	6800.00	06/23/87	24100.00
PHTELD	PHTELD	PPB	0.10	45000.00	4500.00	06/23/87	7.00	06/12/87	7.20	06/23/87	7.30
SULFATE	SULFATE	PPB	500.00	200.00	200.00	06/23/87	20000.00	06/12/87	54300.00	06/23/87	28700.00

TABLE A.4. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 ** - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.
 # - DETECTION LIMIT WAS NOT AVAILABLE FOR RADIONUCIDES FOR FURTHER INVESTIGATION.
 #* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 #** - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.
 #*** - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.
 #**** - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.

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TABLE A.4. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-49-57	SAMPLE DATE	6-49-79	SAMPLE DATE	6-50-53
ALKALIN AMMONIU BETA	PPB PCI/L	50.00 3.00	50.00	05/14/87	105000.00 +	05/18/87	100000.00 +	05/15/87	66000.00 +
CHLORID CO 60	PPB PCI/L	500.00 22.50	100.00	05/14/87 05/14/87	{ 174.00 % { 11.30} 3010.00 25.20 { 11.90}	05/18/87 05/18/87	{ 7.64 { 3.55} 8050.00 NR	05/15/87 05/15/87 05/15/87	72.00 1240.00 % { 32.30} 40100.00 275.00 *
CONDFLD	UMHO	1.00		05/14/87	348.00	05/18/87	400.00	05/15/87	1349.00
CYANIDE	PPB	10.00		05/14/87	23.00		NR	05/15/87	460.00
FASENKI	PPB	5.00	50.00	05/14/87	9.00				
FBARIUM	PPB	6.00	1000.00	05/14/87	19.00	05/18/87	28.00	05/15/87	58.00
FCALCIU	PPB	50.00		05/14/87	21300.00	05/18/87	43600.00	05/15/87	173000.00
FIRON	PPB	50.00						05/15/87	167.00
FLUORID	PPB	500.00	1400.00	05/14/87	1140.00				
FMAGNES	PPB	0.00		05/14/87	6490.00	05/18/87	14400.00	05/15/87	49400.00
FMERCUR	PPB	0.10	2.00	05/14/87	0.11				
FPOTASS	PPB	100.00		05/14/87	5620.00	05/18/87	3840.00	05/15/87	12300.00
FSODIUM	PPB	100.00		05/14/87	49800.00	05/18/87	8830.00	05/15/87	61300.00
FSTRONT	PPB	300.00						05/15/87	737.00
FVANADI	PPB	5.00		05/14/87	36.00	05/18/87	24.00	05/15/87	14.00
FZINC	PPB	5.00		05/14/87	5.00	05/18/87	5.00	05/15/87	12.00
LOALPHA	PCI/L	2.00	15.00					05/15/87	2.16
NITRATE	PPB	500.00	45000.00	05/14/87	46800.00 *	05/18/87	42700.00	05/15/87	346000.00 *
PHFIELD		0.10		05/14/87	7.80	05/18/87	8.00	05/15/87	7.80
SULFATE	PPB	500.00		05/14/87	7.81	05/18/87	7.95	05/15/87	7.47
TOC	PPB	200.00		05/14/87	29900.00	05/18/87	45200.00	05/15/87	386000.00
TRITIUM	PCI/L	500.00	20000.00	05/14/87	528.00 { 1550.00 { 309.00}	05/18/87	213.00	05/15/87	727.00 1400.00 { 306.00}

A.50

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	DETECTOR	WATER UNITS	LIMIT	STANDARD	SAMPLE DATE	SAMPLE	DATE	-----	6-83-47
ALKALIN	AMMONIUM	PPB	50.00	50.00	06/22/87	120000.00 +	06/12/87	110000.00 +	06/10/87	116000.00 +
BETA	CHLORIDE	PC/L	3.00	50.00	06/22/87	76.00	06/12/87	8.51	8.08	{ 3.86 }
	CONFID	PPB	1.00	06/22/87	{ 3.86 }	(3.86)	06/12/87	286.00	06/10/87	5590.00
	FLUORIN	PPB	150.00	06/22/87	3380.00	5710.00	06/12/87	270.00	06/10/87	342.00
	FRACTION	PPB	6.00	06/22/87	42.00	06/12/87	24.00	06/10/87	308.00	38.00
	FLUORIDE	PPB	50.00	06/22/87	32000.00	35000.00	06/12/87	35000.00	06/10/87	33500.00
	FIRON	PPB	10.00	06/22/87	42.00	06/12/87	24.00	06/10/87	308.00	38.00
	FLUORIDE	PPB	50.00	06/22/87	12800.00	11600.00	06/12/87	504.00	06/10/87	11700.00
	FMANGAN	PPB	0.00	06/22/87	94.00	06/12/87	11600.00	06/10/87	662.00	45.00
	FOTASS	PPB	100.00	06/22/87	3870.00	4800.00	06/12/87	4800.00	06/10/87	3920.00
	FSDODIUM	PPB	5.00	06/22/87	9150.00	15400.00	06/12/87	27.00	06/10/87	19300.00
	FZNIC	PPB	5.00	06/22/87	19.00	06/12/87	10.00	06/10/87	14.00	14.00
	LOALPHA	PC/L	2.00	15.00	06/12/87	10.00	06/12/87	10.00	06/10/87	2.19
NITRATE	PHFIELD	PPB	500.00	45000.00	06/22/87	5250.00	06/12/87	7960.00	06/10/87	5930.00
RADIUM	PC/L	0.10	0.10	06/22/87	7.50	06/12/87	7.30	06/10/87	7.26	7.65
SULFATE	TOC	PPB	500.00	20000.00	06/22/87	29200.00	06/12/87	41500.00	06/10/87	49200.00
	TRITIUM	PC/L	500.00	200.00	06/22/87	12000.00	06/12/87	445.00	06/10/87	768.00

TABLE A.4. (contd)

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCIDES

NR - ANALYSIS LIMIT WAS NOT AVAILABLE OR NOT YET REPORTED
+ - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.

- VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.

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NAME	CONSTITUENT UNITS	DETECTION LIMIT	STANDARD DATE	SAMPLE DATE	SAMPLE DATE	-----	6-53-25
ALKALINI	AMMONIUM	PPB	50.00	50.00	06/10/87	120000.00 +	06/08/87 148000.00 +
CHLORIDE	CNDFLD	PPB	500.00	500.00	06/10/87	{ 3.68 }	{ 3.93 }
FARSENI	FBARIUM	PPB	1.00	50.00	06/10/87	51900.00	06/08/87 24100.00
FARSENII	FCALCIU	PPB	6.00	1000.00	06/10/87	379.00	06/08/87 492.00
FLEAD	FIRON	PPB	50.00	50.00	06/10/87	32200.00	06/08/87 54400.00
FLUORIDE	FMANGAN	PPB	5.00	1400.00	06/10/87	759.00	06/08/87 775.00
FONATES	FPOASS	PPB	5.00	11200.00	06/10/87	11300.00	06/08/87 14200.00
GANGAN	FSDODIUM	PPB	100.00	4340.00	06/10/87	4090.00	06/08/87 1114.00
HAFNIUM	FVANDADI	PPB	6.00	28900.00	06/10/87	17100.00	06/08/87 25300.00
LORALPHA	FZINC	PPB	5.00	16.00	06/10/87	2.68	06/08/87 7.00
NITRATE	PHFIELD	PPB	500.00	45000.00	06/10/87	{ 1.49 }	{ 1.93 }
RADIUM	PCIL	PCIL	0.10	5.00	06/10/87	7.44	06/08/87 7.20
SULFATE	TOC	PPB	500.00	20000.00	06/10/87	892.00	06/08/87 82400.00
TRITIUM	-----	PCIL	200.00	06/10/87	37600.00	33100.00	06/08/87 { 0.19 }

TABLE A.4. (contd)

TABLE A.4. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-S6E14A	SAMPLE DATE	6-S8-19	SAMPLE DATE	6-S12-3
ALKALIN BETA	PCI/L	3.00	50.00	06/08/87	98100.00 + 06/08/87 9.26 { 3.54}	06/09/87 163000.00 + 06/09/87 11.10 { 3.83}	06/03/87 124000.00 + 06/03/87 3.55 { 3.12}		
CHLORID	PPB	500.00		06/08/87	13000.00	06/09/87 22000.00	06/03/87 25700.00		
CONDFLD	UMHO	1.00		06/08/87	276.00	06/09/87 393.00	06/03/87 443.00		
FARSENI	PPB	5.00	50.00	06/08/87	5.00	06/09/87 10.00			
FBARIUM	PPB	6.00	1000.00	06/08/87	19.00	06/09/87 52.00	06/03/87 52.00		
FCALCIU	PPB	50.00		06/08/87	26500.00	06/09/87 37200.00	06/03/87 45300.00		
FLUORID	PPB	500.00	1400.00			06/09/87 1460.00 *	06/03/87 582.00		
FMAGNES	PPB	0.00		06/08/87	10700.00	06/09/87 9560.00	06/03/87 10700.00		
FMANGAN	PPB	5.00		06/08/87	5.00	06/09/87 12.00			
FPOTASS	PPB	100.00		06/08/87	5800.00	06/09/87 7730.00	06/03/87 5860.00		
FSELENI	PPB	5.00	10.00	06/08/87	6.00				
FSODIUM	PPB	100.00		06/08/87	13300.00	06/09/87 33200.00	06/03/87 25000.00		
FVANADI	PPB	5.00		06/08/87	11.00				
FZINC	PPB	5.00							
LOALPHA	PCI/L	2.00	15.00	06/08/87	3.00 { 1.35}				
NITRATE	PPB	500.00	45000.00	06/08/87	6170.00	06/09/87 6200.00	06/03/87 11300.00		
PHFIELD		0.10		06/08/87	6.40	06/09/87 7.30	06/03/87 7.70		
				06/08/87	7.92	06/09/87 7.59	06/03/87 7.83		
SULFATE	PPB	500.00		06/08/87	27900.00	06/09/87 16100.00	06/03/87 49200.00		
TOC	PPB	200.00		06/08/87	448.00	06/09/87 439.00	06/03/87 686.00		

A.53

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

9 1 1 1 8 8 9 1 4 3 0

TABLE A.4. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-S29-E12	SAMPLE DATE	6-S31-1
ALKALIN AMMONIU	PPB	50.00		06/08/87	146000.00 +	06/22/87	89300.00 +
BETA	PCI/L	3.00	50.00	06/08/87	14.90	06/22/87	5.50
					{ 4.14}		{ 3.59}
CHLORID	PPB	500.00		06/08/87	13200.00	06/22/87	5540.00
CONDFLD	UMHO	1.00		06/08/87	417.00	06/22/87	220.00
FBARIUM	PPB	6.00	1000.00	06/08/87	47.00	06/22/87	19.00
FCALCIU	PPB	50.00		06/08/87	49800.00	06/22/87	27400.00
FLUORID	PPB	500.00	1400.00	06/08/87	514.00		
FMAGNES	PPB	0.00		06/08/87	10800.00	06/22/87	6200.00
FPOTASS	PPB	100.00		06/08/87	8060.00	06/22/87	4280.00
FSODIUM	PPB	100.00		06/08/87	22400.00	06/22/87	8990.00
FVANADI	PPB	5.00		06/08/87	8.00	06/22/87	15.00
FZINC	PPB	5.00		06/08/87	15.00		
METHYCH	PPB	10.00				06/22/87	44.00
NITRATE	PPB	500.00	45000.00	06/08/87	29900.00	06/22/87	3430.00
PHFIELD		0.10		06/08/87	7.20	06/22/87	7.30
				06/08/87	7.84	06/22/87	7.78
RADIUM	PCI/L	0.10	5.00	06/08/87	0.19	06/22/87	0.11
					{ 0.18}		{ 0.12}
SULFATE	PPB	500.00		06/08/87	38300.00	06/22/87	17700.00
TOC	PPB	200.00		06/08/87	487.00	06/22/87	1380.00
TOXLDL	PPB	20.00				06/22/87	60.80
U	PCI/L	0.50	600.00	06/08/87	2.37		NR

A.54

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
- WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	1-H3-1	SAMPLE DATE	1-H3-2A	SAMPLE DATE	1-H3-2B
AMMONIUM	PPB	50.00	1000.00	04/10/87	106.00	06/16/87	53.00	04/07/87	39.00
BARIUM	PPB	6.00	1000.00	04/10/87	37.00	06/16/87	57.00	05/12/87	30.00
BETA	PC/L	3.00	50.00	04/10/87	9.58	06/11/87	9.67	04/08/87	7.66
CALCIUM	PPB	50.00	{ 3.88 }	04/10/87	{ 3.94 }	06/11/87	{ 3.88 }	04/08/87	{ 3.74 }
CHLORID	PPB	500.00	NR	04/10/87	83300.00	06/11/87	92100.00	05/15/87	83800.00
CHLIFORM	PPB	10.00	50.00	04/10/87	66100.00	06/16/87	62400.00	05/12/87	62000.00
CONDFLD	UMHO	1.00	NR	04/10/87	12.00	06/16/87	27.00	05/12/87	27.00
COPPER	PPB	10.00	(1300.0)	06/16/87	483.00	05/15/87	627.00	05/12/87	268.00
CHROMIUM	PPB	50.00	NR	04/10/87	328.00	06/16/87	328.00	04/08/87	329.00
FLACIUM	PPB	50.00	NR	06/16/87	31.00	05/15/87	31.00	05/12/87	32.00
FCHROMI	PPB	10.00	50.00	04/10/87	62.00	06/16/87	55300.00	05/15/87	82300.00
FIRGON	PPB	50.00	*	06/16/87	31.00	05/15/87	31.00	04/07/87	38.00
FMANGAN	PPB	5.00	NR	06/16/87	12800.00	05/15/87	21100.00	05/12/87	10900.00
FOTASS	PPB	100.00	NR	04/10/87	4380.00	06/16/87	4290.00	04/08/87	4630.00
WATER STANDARDS IN () ARE COUNTING ERRORS FOR RADIONUCLIDES ANALYSIS NOT REQUESTED OR NOT YET REPORTED.									
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY.									

TABLE A.5. Results for Compliance Monitoring Wells

NAME	CONSTITUENT	DETECTION	WATER	STANDARD	DATE	1-H3-1	SAMPLE	1-H3-2A	DATE	1-H3-2B
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FSDIUM	PPB	100.00	5980.00	06/11/87	4980.00	06/11/87	18800.00	06/11/87	12200.00	10000.00
FSTRONT	PPB	300.00		05/15/87	22400.00	04/07/87	11500.00	05/12/87	11600.00	8920.00
FPTASS	PPB	100.00	04/10/87	22400.00	04/07/87	11500.00	04/08/87	11500.00	8370.00	4820.00
FSODIUM	PPB	100.00	04/10/87	22400.00	04/07/87	11500.00	05/12/87	11600.00	8920.00	8370.00
FVANDAI	PPB	5.00	05/15/87	369.00	04/07/87	13.00	05/12/87	10.00	NR	NR
FZINC	PPB	5.00	06/16/87	9.00	06/15/87	10.00	06/12/87	8.00	NR	NR
IRON	PPB	50.00	04/10/87	52.00	05/12/87	67.00	06/11/87	213.00	04/08/87	54.00
L0ALPHA	PCl/L	2.00	04/10/87	8.86	06/11/87	2.91	06/11/87	2.91	05/12/87	52.00
MAGNES	PPB	0.00	04/10/87	21100.00	04/07/87	9640.00	04/08/87	9500.00	05/12/87	9440.00
MANGSE	PPB	5.00	05/15/87	20900.00	05/12/87	8720.00	06/11/87	13200.00	06/11/87	11300.00
NICKEL	PPB	10.00	04/10/87	14.00	06/11/87	14.00	04/08/87	17800.00	05/12/87	16100.00
NITRATE	PPB	500.00	04/10/87	98000.00	04/07/87	18900.00	04/08/87	16100.00	05/12/87	17400.00
PHTIELD	PPB	0.10	05/15/87	54600.00*	05/12/87	15600.00	06/11/87	29900.00	04/07/87	24400.00
POTASUM	PPB	100.00	04/10/87	7.30	06/11/87	7.30	05/12/87	7.60	04/08/87	7.90
RADIUM	PCl/L	0.10	05/15/87	6130.00	06/11/87	6130.00	06/12/87	4370.00	05/12/87	4640.00
SODIUM	PPB	100.00	04/10/87	23100.00	04/07/87	11800.00	04/08/87	11800.00	05/12/87	9000.00

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
% - ANALYSIS LIMIT WAS NOT AVAILABLE FOR COMPARISON.
+ - DETECTION LIMIT WAS NOT REQUESTED OR NOT YET REPORTED.
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY.

NAME	CONSTITUENT	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	1-H3-1	SAMPLE DATE	1-H3-2A	SAMPLE DATE	1-H3-2B
ZINC	PPB	5.00	04/10/87	18.00	NR	06/11/87	6.00	06/11/87	38.00	8.00
VANADUM	PPB	0.73	04/10/87	11.00	NR	05/15/87	8.00	05/12/87	8.00	7.00
U-CHEM	UG/L	5.00	04/10/87	9.11	(399.00)	06/16/87	12.00	06/11/87	NR	6.00
TRITIUM	PCI/L	500.00	200000.00	04/10/87	NR	06/11/87	822.00	06/11/87	831.00	NR
TOC	PPB	200.00	04/10/87	1140.00	05/15/87	1140.00	792.00	05/12/87	635.00	633.00
SULFATE	PPB	500.00	04/10/87	30800.00	06/11/87	73900.00	798.00	04/08/87	55600.00	33500.00
STRONIUM	PPB	300.00	04/10/87	506.00	NR	06/11/87	35600.00	06/11/87	33500.00	NR
			05/15/87	399.00	NR	06/16/87	308.00	04/08/87	33500.00	NR
			06/12/87	81200.00	05/15/87	69100.00	06/12/87	60100.00	04/10/87	633.00
			06/16/87	399.00	NR	06/11/87	30800.00	06/11/87	33500.00	NR
			06/15/87	508.00	NR	06/16/87	35600.00	06/11/87	33500.00	NR

TABLE A.5. (contd)

WATER STANDARD(s) IN PARENTHESES ARE PROPOSED ONLY
 VALUES IN () ARE COUNTING ERRORS FOR RADIONUCLIDES
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.
 # - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

TABLE A.5. (contd.)

NAME	CONSTITUENT UNITS	DETECTRON	WATER	SAMPLE	1-H-3-C	DATE	1-H-4-3	SAMPLE DATE	1-H-4-4
FCHROMI	PPB	10.00	50.00	05/11/87	10.00	05/15/87	302.00 *	05/14/87	24.00
FCOPPER	PPB	10.00	(1300.0)	04/06/87	14.00	04/09/87	304.00 *	06/16/87	176.00 *
FIRON	PPB	50.00	0.00	05/11/87	22.00	06/06/87	606.00	NR	NR
FLUORID	PPB	500.00	1400.00	06/11/87	59.00	06/15/87	643.00	NR	NR
FMANGAN	PPB	5.00	0.00	04/06/87	9660.00	06/15/87	633.00	04/10/87	7850.00
FWMANGAN	PPB	5.00	0.00	05/11/87	9010.00	05/16/87	3310.00	05/14/87	4680.00
FNICKEL	PPB	100.00	0.00	04/06/87	NR	05/16/87	12.00	04/10/87	17.00
FPTOASS	PPB	100.00	0.00	04/06/87	NR	05/16/87	12.00	04/10/87	17.00
FSODIUM	PPB	100.00	0.00	05/11/87	5160.00	05/16/87	3710.00	05/14/87	4650.00
FVANADI	PPB	5.00	0.00	04/06/87	13400.00	06/15/87	239000.00	06/16/87	84800.00
FZINC	PPB	5.00	0.00	05/11/87	12700.00	05/16/87	212000.00	05/14/87	121000.00
IRON	PPB	50.00	0.00	05/11/87	60.00	06/15/87	12.00	04/10/87	70.00
LEADGF	PPB	5.00	2.00	04/06/87	156.00	04/09/87	156.00 %	04/10/87	75.90 %
MAGNES	PPB	0.00	0.00	04/06/87	9800.00	04/09/87	340.00	04/10/87	34.40 %
MANGSE	PPB	0.00	0.00	05/11/87	9010.00	06/15/87	1960.00	05/14/87	4810.00
MANGSE	PPB	0.00	0.00	05/16/87	1960.00	06/15/87	2680.00	06/14/87	5.78 %
MANGSE	PPB	0.00	0.00	06/11/87	9010.00	06/15/87	1960.00	06/14/87	4810.00
MANGSE	PPB	0.00	0.00	06/16/87	0.00	06/16/87	0.00	06/16/87	0.00

TABLE A.5. (contd)

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	SAMPLE STANDARD	DATE	1-H-3-C	SAMPLE DATE	1-H-4-3	1-H-4-4
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TABLE A.5. (contd)

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MANGANESE	PPB	5.00	04/06/87	5000.00	04/09/87	NR	06/15/87	12.00	04/10/87	452000.00 *
NICKEL	PPB	10.00	05/11/87	40100.00	05/15/87	323000.00 *	06/15/87	7.70	04/09/87	429000.00 *
METHYCHL	PPB	5.00	05/11/87	3770.00	06/15/87	3710.00	06/11/87	7.70	04/09/87	429000.00 *
PHFIELD	0.10	04/06/87	3770.00	40100.00	05/15/87	323000.00 *	06/15/87	7.70	04/09/87	429000.00 *
NITRATE	PPB	500.00	04/06/87	450000.00	04/09/87	NR	06/15/87	12.00	04/10/87	452000.00 *
RADIUM	PCl/L	0.10	04/06/87	100.00	05/15/87	202000.00	06/15/87	7.70	04/10/87	60300.00
POTASUM	PPB	100.00	04/06/87	22600.00	04/09/87	271000.00	(0.19)	06/15/87	8.00	04/10/87
SODIUM	PPB	100.00	04/06/87	22600.00	04/09/87	271000.00	(0.19)	06/15/87	8.00	04/10/87
SR 90	PCl/L	5.00	04/06/87	23000.00	04/09/87	NR	06/15/87	8.00	04/10/87	8.00 *
SULFATE	PPB	500.00	04/06/87	23000.00	04/09/87	82700.00	{ 1.93 }	06/15/87	8.00	04/10/87
TOC	PPB	200.00	06/11/87	24000.00	04/09/87	767.00	06/15/87	7.70	04/10/87	988.00
TRITIUM	PPB	500.00	04/06/87	20000.00	04/09/87	100.00	06/15/87	358.00	06/15/87	945.00
TOX	PPB	600.00	06/11/87	669.00	06/15/87	666.00	06/15/87	864.00	06/15/87	757.00
U-CHEM	PCl/L	0.73	06/11/87	600.00	04/09/87	NR	06/15/87	358.00	06/15/87	945.00
VANADUM	PPB	5.00	04/06/87	NR	04/09/87	1510.00	06/15/87	1020.00	04/10/87	{ 300.00 }
ZINC	PPB	5.00	06/11/87	18.00	04/09/87	268.00	04/10/87	36.00	06/15/87	85.00

WATER STANDARD(S) IN PARENTHESES ARE COUNTING ERRORS FOR RADIONUCCLIDES VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCCLIDES

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
- VALUE EXCEEDS SCREENING LEVEL FOR DRINKING WATER STANDARD.

*

#

NR - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

*

NR

TABLE A.5. (contd)

NAME	DETECTIION UNITS	WATER LIMIT	SAMPLE STANDARD	DATE	1-H4-5	SAMPLE DATE	1-H4-6	SAMPLE DATE	1-H4-7
FMANGAN	PPB	5.00	NR	04/14/87	85.00	NR	-----	-----	-----
FPOTASS	PPB	100.00	NR	04/10/87	4690.00	NR	05/15/87	46.00	NR
FSODIUM	PPB	100.00	NR	05/16/87	5160.00	04/10/87	10800.00	04/06/87	5760.00
FPOTASS	PPB	100.00	NR	04/06/87	6610.00	05/15/87	6410.00	06/15/87	5210.00
FMANGAN	PPB	5.00	NR	04/14/87	85.00	NR	05/15/87	65.00	NR
FMANGAN	PPB	100.00	NR	04/10/87	4690.00	NR	05/15/87	46.00	NR
FSDIUM	PPB	100.00	NR	05/16/87	5160.00	04/10/87	10800.00	04/06/87	5500.00
FSODIUM	PPB	100.00	NR	05/16/87	5160.00	04/10/87	10800.00	04/06/87	11900.00
FSTRONT	PPB	300.00	NR	06/16/87	11600.00	05/19/87	9980.00	04/06/87	13000.00
FSTRONT	PPB	300.00	NR	06/16/87	11600.00	05/19/87	25000.00	05/18/87	13700.00
FVANADI	PPB	5.00	NR	06/16/87	356.00	05/15/87	344.00	05/18/87	313.00
FZINC	PPB	5.00	NR	06/16/87	7.00	05/19/87	42.00	05/18/87	7.00
IRON	PPB	50.00	NR	06/16/87	42.00	05/19/87	80.00	04/06/87	36.00
LOALPHA	PCl/L	2.00	NR	04/10/87	15.00	06/16/87	2.38	04/06/87	2.46
MAGNES	PPB	0.00	NR	04/14/87	10400.00	06/16/87	14400.00	04/06/87	10600.00
MANGES	PPB	5.00	NR	04/14/87	10300.00	06/19/87	10300.00	05/18/87	14200.00
MANGSE	PPB	5.00	NR	04/14/87	14900.00	06/15/87	15500.00	05/18/87	13300.00
NITRATE	PPB	500.00	45000.00	04/10/87	28100.00	06/16/87	69.00	06/15/87	5.00
PFFIELD	PPB	0.10	300300.00	06/16/87	315000.00	05/15/87	385000.00	06/15/87	39500.00
POTASUM	PPB	100.00	04/10/87	7.40	04/14/87	7.30	04/10/87	7.10	7.70
RADIUM	PCl/L	0.10	5.00	04/14/87	6440.00	05/15/87	6560.00	05/18/87	6120.00

WATER STANDARD(S) IN PARENTHESIS ARE PROPOSED ONLY
VALUES IN () ARE COUNTING ERRORS FOR RADIONUCLIDES
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- ANALYSIS NOT AVAILABLE FOR FURTHER INVESTIGATION.

% - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	STANDARD DATE	1-H4-6	SAMPLE DATE	1-H4-7
RADIUM	PCI/L	0.16	5.00		05/15/87	0.24	05/18/87 (0.17)
SODIUM	PPB	100.00	04/10/87	11000.00	04/14/87 (0.14)	04/06/87	11200.00 (0.21) 0.34
STRONIUM	PPB	300.00	05/19/87	9960.00	05/15/87	25600.00	05/18/87 13700.00
SULFATE	PPB	500.00	04/10/87	57000.00	04/14/87	92400.00	04/06/87 29100.00
TOC	PPB	200.00	05/19/87	54600.00	05/15/87	86200.00	06/15/87 102000.00
TRITIUM	PCI/L	500.00	04/10/87	20000.00	04/10/87	116000.00	06/15/87 9900.00
VANADUM	PCI/L	0.50	600.00	04/10/87	2.07 (302.00)	04/14/87 (364.00)	06/15/87 938.00
ZINC	PPB	5.00	600.00	04/10/87	2.46 (364.00)	04/14/87	NR

TABLE A.5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 NR - VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES
 WATER STANDARD(s) IN PARENTHESIS ARE PROPOSED ONLY

NAME	CONSTITUENT	UNITS	DETECTION	WATER	SAMPLE	SAMPLE DATE	1-H-4-8	SAMPLE	1-H-4-9	SAMPLE DATE	1-H-4-10
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TABLE A-5. (contd)

A	ALUMNUM	PPB	150.00	05/18/87	1500.00	178.00	1-H-4-8	-----	-----	-----	-----
	AMMONIUM	PPB	6.00	05/18/87	06/15/87	248.00	1-H-4-8	-----	-----	-----	-----
	ARSENIC	PPB	6.00	05/18/87	06/15/87	52.00	NR	-----	-----	-----	-----
	BARIUM	PPB	6.00	04/09/87	NR	8.00	04/08/87	9.00	-----	-----	-----
	BETA	PC/L	3.00	50.00	04/09/87	8.71	04/08/87	49.00	05/14/87	37.00	44.00
	CALCITUM	PPB	2.00	04/09/87	63700.00	2.00	06/15/87	{ 6.63 }	05/14/87	{ 5.26 }	8.96
	CADMITUM	PPB	2.00	10.00	10.00	{ 3.87 }	06/15/87	6.18	06/12/87	{ 4.00 }	05/14/87
	CHLIFORM	PPB	10.00	04/09/87	68400.00	06/15/87	06/15/87	17.00	05/18/87	20.00	17.00
	CHLORID	PPB	500.00	04/09/87	67900.00	05/18/87	04/08/87	20.00	06/15/87	18.00	NR
	CHROMUM	PPB	10.00	04/09/87	9850.00	04/08/87	04/08/87	19.00	06/15/87	18.00	2070.00
	CONDFLD	UMHO	1.00	04/09/87	9190.00	06/12/87	05/18/87	101.00	06/15/87	113.00	17.00
	COPPER	PPB	10.00	(1300.0)	04/09/87	111.00	05/18/87	16.00	06/12/87	4063.00	232.00
	FARSENI	PPB	5.00	50.00	04/09/87	NR	04/08/87	8.00	06/10/87	11.00	14.00
	FBARIUM	PPB	6.00	1000.00	04/09/87	43.00	04/08/87	9.00	04/08/87	11.00	75.00
	FCALCIU	PPB	50.00	05/18/87	40.00	05/18/87	63.00	05/18/87	62.00	05/14/87	42.00
	FCHROMI	PPB	10.00	04/09/87	64200.00	04/08/87	84200.00	63.00	05/18/87	66.00	47000.00
	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	*	*	*	*	*	*	*	*	*	*	*
	WATER STANDARD	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	VALUES IN { } ARE COUNTING ERRORS FOR RDIONUCCLIDES	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	+ - VALUE EXCEEDS SCREENG LEVEL FOR FURTHER INVESTIGATION.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
	* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

WATER STANDARD(S) IN PARENTHESIS ARE PROPOSED ONLY
VALUES IN { } ARE COUNTING ERRORS FOR RDIONUCCLIDES

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
+ - VALUE EXCEEDS SCREENG LEVEL FOR FURTHER INVESTIGATION.

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

NAME	CONSTITUENT UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	1-H4-8	1-H4-9	SAMPLE DATE	1-H4-10
FIRON	PPB	50.00	05/18/87	172.00	NR	06/10/87	6410.00	NR
FMANGAN	PPB	5.00	05/18/87	107.00	NR	06/10/87	6410.00	NR
FMANGANESES	PPB	0.00	04/09/87	11000.00	04/08/87	15300.00	05/14/87	10900.00
FMANGANESES	PPB	0.00	05/18/87	11300.00	05/18/87	117400.00	05/14/87	6890.00
FPMANGAN	PPB	100.00	04/09/87	4970.00	04/08/87	5810.00	04/08/87	4530.00
FSDODIUM	PPB	100.00	05/18/87	5100.00	05/18/87	6060.00	05/14/87	2800.00
FSDODIUM	PPB	300.00	06/12/87	326.00	05/18/87	422.00	05/18/87	7640.00
FSTRONT	PPB	5.00	04/09/87	3080.00	04/08/87	375.00	06/10/87	7830.00
FVANDADI	PPB	5.00	06/12/87	326.00	05/18/87	7.00	04/08/87	8.00
FZINC	PPB	5.00	04/09/87	8.00	04/08/87	5.00	06/10/87	5.00
IRON	PPB	50.00	06/12/87	9.00	05/18/87	8.00	04/08/87	NR
LOALPHA	PCI/L	2.00	04/09/87	11.00	04/08/87	3.18	04/08/87	2.15
MAGNES	PPB	0.00	04/09/87	10800.00	04/08/87	14900.00	04/08/87	10500.00
MANGESIE	PPB	5.00	06/12/87	11500.00	05/18/87	17200.00	05/14/87	7130.00
NITRATE	PPB	500.00	04/09/87	27800.00	04/08/87	116000.00	04/08/87	26200.00
PHTFIELD	PPB	0.10	05/18/87	78.00	05/18/87	7.00	04/08/87	7.00
POTASUM	PPB	100.00	04/09/87	36800.00	04/08/87	145000.00	04/08/87	23100.00
RADIUM	PCI/L	0.10	05/18/87	29900.00	05/18/87	145000.00	05/14/87	2940.00

TABLE A.5. (contd)

NAME	CONSTITUENT	UNITS	DETECTION	LIMIT	WATER	SAMPLE	DATE	1-H4-8	SAMPLE	DATE	1-H4-9	SAMPLE	DATE	1-H4-10
RADIUM	PC/L	0.10	05/18/87	5.00	0.28	(0.18)	NR	05/14/87	0.11	0.11	0.11	0.11	0.11	-----
SODIUM	PPB	100.00	04/09/87	13400.00	0.00	0.00	04/08/87	25900.00	04/06/87	15800.00	04/06/87	15800.00	04/06/87	{ 0.13 }
STRONIUM	PPB	300.00	05/18/87	12300.00	0.00	05/18/87	10800.00	06/15/87	19600.00	05/14/87	17600.00	05/14/87	17600.00	06/10/87
SULFATE	PPB	500.00	04/09/87	58600.00	0.00	04/08/87	64000.00	05/18/87	318.00	NR	NR	NR	NR	NR
TOC	PPB	200.00	05/18/87	62900.00	0.00	06/12/87	68700.00	05/18/87	71500.00	06/14/87	23200.00	06/14/87	21700.00	06/10/87
VANADUM	PPB	5.00	04/09/87	10650.00	0.00	05/18/87	764.00	04/08/87	921.00	05/14/87	537.00	05/14/87	601.00	06/10/87
ZINC	PPB	5.00	04/09/87	13.00	0.00	05/18/87	16.00	04/08/87	9.00	05/18/87	8.00	04/08/87	8.00	06/14/87

TABLE A.5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 + - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 - - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 ** - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 # - ANALYSIS IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	UNITS	DETECTION	LIMIT	WATER	SAMPLE	DATE	1-H4-12A	SAMPLE	DATE	1-H4-12B	
ALUMNUM	PPB	150.00	06/12/87	908.00	06/12/87	51.00	04/07/87	74.00	05/13/87	80.00	
AMMONIUM	PPB	50.00	05/18/87	63.00	05/12/87	31.00	06/12/87	37.00	06/13/87	80.00	
BARIUM	PPB	6.00	1000.00	04/06/87	29.00	05/13/87	31.00	06/12/87	37.00	06/13/87	99.00
BETA	PC/L	3.00	50.00	04/06/87	04/07/87	04/06/87	04/07/87	06/12/87	06/12/87	04/07/87	54.60%
CALCIUM	PPB	50.00	{ 48700.00	04/06/87	41900.00	05/13/87	41900.00	06/12/87	41900.00	06/13/87	73400.00
CHLIFORM	PPB	10.00	06/10/87	31.00	04/06/87	31.00	04/07/87	22.00	04/07/87	06/12/87	56400.00
CHLORID	PPB	500.00	04/06/87	3850.00	05/18/87	3850.00	04/07/87	3820.00	04/07/87	06/12/87	4280.00
CHROMUM	PPB	10.00	06/10/87	3780.00	06/12/87	3780.00	04/07/87	3780.00	04/07/87	06/12/87	5090.00
CONDFLD	UMHO	1.00	06/10/87	109.00	06/18/87	109.00	06/12/87	97.00	06/18/87	109.00	152.00*
COPPER	PPB	10.00	(1300.0)	06/10/87	19.00	06/10/87	19.00	06/10/87	273.00	06/12/87	331.00
FALUMIN	PPB	150.00	1000.00	06/10/87	341.00	06/10/87	13.00	NR	NR	NR	
FBARIUM	PPB	PPB	150.00	1000.00	04/07/87	77.00	04/07/87	34.00	05/13/87	75.00	106.00
FCALCIU	PPB	50.00	06/18/87	39.00	06/12/87	33.00	06/12/87	33.00	04/07/87	72.00	75.00
FCHROMI	PPB	10.00	50.00	04/06/87	49000.00	06/18/87	48900.00	06/13/87	40700.00	04/07/87	51500.00
FCOPPER	PPB	10.00	(1300.0)	06/10/87	11.00	06/10/87	108.00	05/13/87	41600.00	04/07/87	22900.00*
FIRON	PPB	50.00	04/06/87	630.00	06/10/87	630.00	06/10/87	111.00	05/13/87	108.00	137.00*
FLLEAD	PPB	50.00	04/06/87	6200.00	05/13/87	7240.00	04/07/87	12200.00	05/13/87	8660.00	8480.00
FMAGNES	PPB	0.00	04/06/87	6260.00	05/13/87	7540.00	04/07/87	11800.00	05/13/87	8660.00	8480.00

*	- VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.	NR	WATER STANDARD(S) IN PARATHESSES ARE PROPOSED ONLY								
%	- VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.	NR - ANALYSIS NOT AVAILABLE FOR REPORTED RADIONUCIDES VALUES IN () ARE COUNTING ERRORS FOR RADIONUCIDES									
#	- VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.	NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED									
*	- ANALYSIS NOT AVAILABLE FOR COMPARISON.	NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED									
ALUMNUM	PPB	150.00	06/12/87	908.00	06/12/87	51.00	04/07/87	74.00	05/13/87	80.00	99.00
AMMONIUM	PPB	50.00	05/18/87	63.00	05/12/87	31.00	06/12/87	37.00	06/13/87	80.00	80.00
BARIUM	PPB	6.00	1000.00	04/06/87	29.00	05/13/87	31.00	06/12/87	37.00	06/13/87	99.00
BETA	PC/L	3.00	50.00	04/06/87	04/07/87	04/06/87	04/07/87	06/12/87	06/12/87	04/07/87	73.00%
CALCIUM	PPB	50.00	{ 48700.00	04/06/87	41900.00	05/13/87	41900.00	06/12/87	41900.00	06/13/87	73400.00
CHLIFORM	PPB	10.00	06/10/87	31.00	04/06/87	31.00	04/07/87	22.00	04/07/87	06/12/87	56400.00
CHLORID	PPB	500.00	04/06/87	3850.00	05/18/87	3850.00	04/07/87	3820.00	04/07/87	06/12/87	4280.00
CHROMUM	PPB	10.00	06/10/87	3780.00	06/12/87	3780.00	04/07/87	3780.00	04/07/87	06/12/87	5090.00
CONDFLD	UMHO	1.00	06/10/87	97.00	06/12/87	92.00	06/12/87	57.00	05/13/87	97.00	156.00*
COPPER	PPB	10.00	(1300.0)	06/10/87	19.00	06/10/87	273.00	06/12/87	272.00	06/12/87	331.00
FALARIN	PPB	150.00	1000.00	04/06/87	341.00	06/10/87	13.00	NR	NR	NR	
FALUMIN	PPB	PPB	150.00	1000.00	04/07/87	77.00	04/07/87	106.00	05/13/87	106.00	158.00*
FCHROMI	PPB	50.00	04/06/87	49000.00	06/18/87	48900.00	06/13/87	40700.00	04/07/87	51500.00	22900.00*
FCALCIU	PPB	50.00	04/06/87	49000.00	06/18/87	48900.00	06/13/87	40700.00	04/07/87	51500.00	72900.00
FCOPPER	PPB	10.00	(1300.0)	06/10/87	93.00	06/10/87	92.00	05/13/87	108.00	04/07/87	137.00*
FIRON	PPB	10.00	06/10/87	630.00	06/10/87	630.00	06/10/87	111.00	05/13/87	108.00	137.00*
FLLEAD	PPB	50.00	04/06/87	6200.00	05/13/87	7240.00	04/07/87	12200.00	05/13/87	8660.00	8480.00
FMAGNES	PPB	0.00	04/06/87	6260.00	05/13/87	7540.00	04/07/87	11800.00	05/13/87	8660.00	8480.00

TABLE A.5. (contd)

NAME	UNITS	DETECTION	WATER	SAMPLE	DATE	1-H-11	1-H-12A	SAMPLE	DATE	1-H-12B
FMANGAN	PPB	100.00	5.00	06/10/87	19.00	04/07/87	2590.00	05/13/87	5750.00	04/07/87
FPTOTASS	PPB	100.00	04/06/87	2590.00	05/13/87	2650.00	3900.00	06/12/87	4100.00	05/13/87
FSODIUM	PPB	100.00	06/10/87	2590.00	06/12/87	2590.00	4100.00	06/10/87	21400.00	04/07/87
FVANADI	PPB	5.00	05/18/87	NR	04/07/87	359.00	04/07/87	06/12/87	111500.00	05/13/87
FZINC	PPB	5.00	06/12/87	8.00	06/12/87	8.00	06/12/87	06/12/87	6.00	06/13/87
IRON	PPB	50.00	06/10/87	9.00	06/12/87	5.00	06/12/87	NR	20.00	06/13/87
L0ALPHA	PCl/L	2.00	15.00	06/10/87	1800.00	06/10/87	1800.00	06/10/87	2.80	04/07/87
MAGNES	PPB	0.00	04/06/87	6880.00	06/12/87	4.06	06/12/87	4.06	6.16	06/12/87
MANGSE	PPB	5.00	05/18/87	6920.00	06/13/87	7480.00	06/13/87	05/13/87	8970.00	05/13/87
METRYCH	PPB	10.00	04/06/87	6880.00	04/07/87	11900.00	04/07/87	11900.00	11300.00	04/07/87
NITRACE	PPB	500.00	04/06/87	21800.00	05/13/87	22900.00	05/13/87	26600.00	27000.00	06/12/87
PHFIELD	PPB	0.10	06/10/87	7.50	06/12/87	7.40	06/12/87	7.60	7.30	04/07/87
POTASUM	PPB	100.00	04/06/87	25400.00	05/13/87	26300.00	05/13/87	27600.00	27800.00	06/12/87
RADIUM	PCl/L	0.10	5.00	06/10/87	0.13	0.13	0.13	0.13	0.43	04/07/87
SODIUM	PPB	100.00	04/06/87	7250.00	05/13/87	20600.00	04/07/87	10700.00	9220.00	05/13/87

TABLE A-5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN () ARE COUNTING ERRORS FOR RADIONUCLEIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

A.69

NAME	CONSTITUENT UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	1-HA-11	SAMPLE DATE	1-HA-12A	SAMPLE DATE	1-HA-12B
SULFATE	PPB	300.00	600.00	04/06/87	38400.00	04/07/87	357.00	04/07/87	327.00
STRONIUM	PPB	300.00	600.00	04/06/87	38400.00	04/07/87	357.00	04/07/87	327.00
TOC	PPB	200.00	300.00	05/18/87	37300.00	05/13/87	29400.00	05/13/87	36400.00
				06/18/87	32900.00	06/12/87	32400.00	06/12/87	47100.00
VANADUM	PPB	100.00	150.00	04/06/87	600.00	04/07/87	5.00	06/13/87	3200.00
ZINC	PPB	5.00	5.00	04/06/87	600.00	04/07/87	5.00	06/13/87	5.00
				06/18/87	5.00	06/12/87	5.00	06/12/87	5.00
				06/10/87	5.00	06/13/87	10.00	06/12/87	8.00
				06/18/87	5.00	06/12/87	8.00	06/12/87	9.00
				04/06/87	15.00	04/07/87	9.00	04/07/87	9.00
				06/18/87	15.00	06/12/87	9.00	06/13/87	41.00
				06/10/87	15.00	06/13/87	9.00	06/12/87	24.00
				06/18/87	15.00	06/12/87	9.00	06/12/87	41.00
				06/10/87	15.00	06/13/87	9.00	06/12/87	24.00

TABLE A.5. (contd)

TABLE A.5. (contd.)

6

NR - ANALYSIS NOT REQUISTED OR NOT YET REPORTED
VALUES IN () ARE COUNTING ERRORS FOR RADIONUCCLIDES
WATER STANDARD(S) IN PARRENTHESSES ARE PROPOSED ONLY

* - VALUE EXCEEDS SCREENING LIMIT WAS NOT AVAILABLE FOR COMPARISON
* - DETECTION INVESTIGATION.

* - VALUE X CLEADS PRIMARY DRINKING WATER STANDARDS. STANDARDS ARE PROPOSED BY THE U.S. ENVIRONMENTAL PROTECTION AGENCY.

ECALCINI PPR 50,00 00/07/87 260800 00 04/08/87 329800 00 04/08/87 425600 00
00/08/87 13,00 06/12/87 20,00 06/12/87 06/12/87 06/12/87 19,00

FEBARIUM PPB 6.06 10000.00 04/07/87 10.00 04/08/87 2.00 05/12/87 24.00 04/08/87 22.00

04/08/87 5.00 PBP F-ARSENIN LTB LTB F-ARSENIN 5.00 5.00 5.00 5.00 5.00 5.00

NR
Nº
06 12/87
05 12/87
15.00
10.00

COPPER FPB 10-.00 (1300.0) .05/.13/.87 271.00 06/12/87 209.00

CONFIDELD UMHO 1.00 04/08/87 275.00 04/08/87 285.00 04/08/87 285.00 04/08/87 314.00

CHLORIDE FPP 500.00 04/07/87 6560.00 04/08/87 5200.00 04/10/87 5430.00

05/13/87 28666.00 00 05/12/87 41070.00 .00 05/12/87 41070.00 .00 05/12/87 41070.00 .00 05/12/87 41070.00 .00

06/12/87 06/12/87 06/12/87 06/12/87 06/12/87 06/12/87 06/12/87 06/12/87

05/13/87 71786 05/12/87 3381 66.20% 05/12/87 12.50

PCI/L PCI/BETΑ 3.00 50.00 04/07/87 8.81 04/08/87 73.20 % 04/08/87 8.67

ARSENAL FFB 8-88 55-55 06/13/87 06/10/87 NR 5-88 55-55 06/08/87

005/13/87 1986 00 2090 00
006/10/87 2090 00

AUWANNUTU PBB 1500.00 04/07/87 3000.00 04/08/87 224.00

ST-MU-1 **ST-MU-2** **ST-MU-3** **ST-MU-4** **ST-MU-5** **ST-MU-6** **ST-MU-7** **ST-MU-8** **ST-MU-9** **ST-MU-10**

CONSTITUENT DETECTION WATER SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	STANDARD	SAMPLE DATE	1-H4-12C	SAMPLE DATE	1-H4-13	SAMPLE DATE	1-H4-14
CHROMIUM	PPB	10.00	06/10/87	64.00 *	06/12/87	28.00	06/12/87	268.00 *	268.00 *	-----
IRON	PPB	50.00	04/07/87	612.00	04/08/87	70.00	04/08/87	66/12/87	268.00 *	-----
MAGNESIUM	PPB	0.00	04/07/87	11500.00	04/08/87	6590.00	04/08/87	8200.00	8200.00	8630.00
MANGANESE	PPB	5.00	06/10/87	11200.00	04/08/87	6820.00	04/08/87	8480.00	8480.00	8570.00
ZINC	PPB	5.00	06/10/87	11300.00	04/08/87	6820.00	04/08/87	8480.00	8480.00	8570.00
IRON	PPB	50.00	06/10/87	11200.00	04/08/87	6820.00	04/08/87	8480.00	8480.00	8570.00
LEAD/PHA	PCl/L	2.00	04/07/87	2.71	04/08/87	2.70	04/08/87	66/12/87	221.00	59.00
NICKEL	PPB	10.00	06/10/87	521.00	04/08/87	406.00	04/08/87	66/12/87	52.00	NR
MANGANESE	PPB	5.00	06/10/87	11100.00	04/08/87	6850.00	04/08/87	66/12/87	7970.00	7970.00
METHYCH	PPB	10.00	06/10/87	410.00	04/08/87	33.00	04/08/87	66/12/87	37.00	NR
PHTFIELD	PPB	0.10	06/10/87	3810.00	04/07/87	2640.00	04/08/87	66/12/87	20500.00	19900.00
NITRATE	PPB	500.00	04/07/87	4780.00	04/08/87	2200.00	04/08/87	18400.00	18400.00	18400.00
POTASSUM	PPB	100.00	04/07/87	5300.00	04/07/87	5300.00	04/07/87	66/12/87	7.40	4360.00

TABLE A.5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 % - ANALYSIS NOT AVAILABLE FOR REPORT.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 ----- - DETECTION LIMIT WAS NOT AVALIABLE FOR RADIONUCLEIDES
 WATER STANDARD(S) IN PARENTHESIS ARE PROPOSED ONLY
 VALUES IN () ARE COUNTERING ERRORS FOR RADIONUCLEIDES

NAME	CONSTITUENT	UNITS	DETECTION	WATER	STANDARD	SAMPLE	SAMPLE	DATE	1-H4-13	DATE	1-H4-14
POTASSIUM	PPB	100.00	05/13/87	5480.00	05/12/87	2270.00	05/12/87	04/08/87	4190.00	4010.00	RADIUM
RADIUM	PC/L	0.10	06/10/87	5280.00	04/07/87	0.26	06/12/87	2250.00	06/12/87	0.18	0.11
POTASSIUM	PPB	100.00	05/13/87	5480.00	05/12/87	2270.00	05/12/87	04/08/87	4190.00	4010.00	RADIUM
SODIUM	PPB	100.00	05/13/87	14500.00	04/07/87	7350.00	04/08/87	05/12/87	8280.00	7960.00	SULFATE
SULFATE	PPB	500.00	06/10/87	11500.00	05/12/87	6490.00	06/12/87	6340.00	6600.00	7280.00	TOC
TOC	PPB	200.00	05/13/87	27700.00	04/07/87	28200.00	05/12/87	28900.00	30000.00	38100.00	VANADUM
VANADUM	PPB	100.00	06/10/87	603.00	04/07/87	547.00	05/12/87	659.00	649.00	636.00	ZINC
ZINC	PPB	5.00	05/13/87	312.00	04/07/87	18.00	05/12/87	5.00	04/08/87	9.00	*
*	-	-	-	-	-	-	-	-	-	-	# - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
# -	-	-	-	-	-	-	-	-	-	-	% - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
% -	-	-	-	-	-	-	-	-	-	-	NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
NR -	-	-	-	-	-	-	-	-	-	-	VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES
VALUES IN { }	-	-	-	-	-	-	-	-	-	-	WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.5. (contd)

TABLE A.5. (contd)

TABLE A.5. (contd)

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NAME	CONSTITUENT	DETECTION UNITS	WATER LIMMIT	SAMPLE STANDARD DATE	SAMPLE DATE	SAMPLE DATE	1-HA-16	
FPOTASS	PBP	100.00	04/09/87	5390.00	04/09/87	5290.00	06/15/87	4310.00
FSODIUM	PBP	100.00	04/09/87	10900.00	04/09/87	10800.00	06/15/87	11300.00
FVANADI	PBP	5.00	04/09/87	11100.00	05/14/87	10700.00	06/14/87	10100.00
FZINC	PBP	5.00	04/09/87	6.00	05/14/87	8.00	06/14/87	10.00
IRON	PBP	50.00	04/09/87	137.00	06/11/87	124.00	06/15/87	2870.00
L0ALPHA	PC/L	2.00	15.00	04/09/87	2.28	04/09/87	05/07/87	2.12
MAGNES	PBP	0.00	04/09/87	10000.00	04/09/87	11100.00	05/07/87	5280.00
MANGSE	PBP	5.00	04/09/87	8860.00	05/14/87	11000.00	06/16/87	10400.00
METHYCH	PBP	10.00	06/11/87	11300.00	06/11/87	11100.00	05/07/87	92.00
NITRATE	PBP	500.00	04/09/87	25900.00	04/09/87	23300.00	05/07/87	10700.00
PHFIELD	PBP	0.10	04/09/87	45000.00	04/09/87	25400.00	05/07/87	63800.00
POTASUM	PBP	100.00	04/09/87	6.00	05/14/87	7.00	06/11/87	7.30
RADIUM	PC/L	0.10	5.00	04/09/87	5050.00	05/14/87	4720.00	5260.00
SODIUM	PBP	100.00	04/09/87	10800.00	04/09/87	11000.00	05/07/87	4730.00
SULFATE	PBP	500.00	04/09/87	11100.00	04/09/87	10600.00	05/07/87	11900.00
* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.								
# - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.								
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED								
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR RADIONUCLIDES								
WATER STANDARD(S) IN PARENTHESIS ARE PROPOSED ONLY								

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NAME	CONSTITUENT	UNITS	DETECTION	WATER	SAMPLE	STANDARD	LIMIT	DATE	1-H4-15A	SAMPLE	1-H4-15B	SAMPLE	DATE	1-H4-16
SULFATE	PPB	500.00	06/14/87	32300.00	06/14/87	41700.00	NR	-----	-----	-----	-----	-----	-----	-----
TOC	PPB	200.00	06/11/87	52300.00	06/11/87	41700.00	NR	-----	-----	-----	-----	-----	-----	-----
VANADUM	PPB	100.00	04/09/87	582.00	04/09/87	520.00	NR	06/11/87	968.00	06/11/87	586.00	06/15/87	867.00	NR
ZINC	PPB	5.00	04/09/87	9.00	04/09/87	5.00	NR	06/11/87	11.00	06/11/87	5.00	06/15/87	9.00	115.00

TABLE A.5. (contd)

TABLE A.5. (contd)

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TABLE A.5. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	1-H4-17	SAMPLE DATE	1-H4-18	SAMPLE DATE	2-E25-27
TOC	PPB	200.00			NR		NR	06/30/87	838.00
TOXLDL	PPB	20.00			NR		NR	06/30/87	25.80
					NR		NR	06/30/87	31.50
					NR		NR	06/30/87	20.00
TRITIUM	PCI/L	500.00	20000.00		NR		NR	06/30/87	9520.00
VANADUM	PPB	5.00		06/15/87	8.00			06/30/87	{ 354.00}
ZINC	PPB	5.00		06/15/87	17.00	06/10/87	15.00		43.00

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* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT UNITS	DETECTION	LIMIT	SAMPLE	STANDARD	2-EB5-28	SAMPLE	3-1-1	SAMPLE	3-1-2
ARSENIC	PPB	5.00	50.00	06/30/87	9.00	04/16/87	31.00	06/24/87	3.64	
BARIUM	PPB	6.00	1000.00	06/30/87	22.00	06/24/87	32.00	06/24/87	18.00	21.00
BETA	PCII/L	3.00	50.00	06/30/87	8.28	04/16/87	11.60	04/17/87	8.71	
CALCIUM	PPB	50.00	50.00	06/30/87	7.35	06/24/87	7.64	06/24/87	10.50	(4.02)
CHLIFORM	PPB	10.00	NR	04/16/87	21800.00	04/17/87	21700.00	06/24/87	24600.00	24400.00
CHLIFORM	PPB	10.00	NR	06/24/87	21700.00	04/17/87	21800.00	06/24/87	10.00	
CHLORID	PPB	500.00	NR	06/30/87	4340.00	04/16/87	10900.00	06/24/87	14.00	
COLIFIRM	MPN	2.20	1.00	06/30/87	181.00	04/16/87	10800.00	06/24/87	9.20	*
COPPER	PPB	10.00	(1300.0)	06/30/87	11.00	04/16/87	13.00	04/17/87	14.00	
FARSINET	PPB	5.00	1000.00	06/30/87	210.00	04/16/87	20.00	06/24/87	211.00	
FCALCIU	PPB	50.00	NR	06/30/87	31.00	04/16/87	31.00	04/17/87	22.00	
FCOPPER	PPB	10.00	(1300.0)	06/30/87	14.00	04/16/87	14.00	04/17/87	13.00	
FIRION	PPB	50.00	NR	06/30/87	20300.00	04/16/87	21200.00	06/24/87	26200.00	
FMDANCES	PPB	6.00	5920.00	06/30/87	4110.00	04/16/87	4100.00	06/24/87	5650.00	
FPTASS	PPB	100.00	NR	06/30/87	4090.00	04/16/87	2370.00	06/24/87	3160.00	
FSODIUM	PPB	100.00	NR	06/30/87	4090.00	04/16/87	2310.00	06/24/87	3150.00	
FZNIC	PPB	5.00	06/30/87	13400.00	06/24/87	9660.00	04/16/87	9680.00	10900.00	
IRON	PPB	5.00	06/30/87	67.00	04/16/87	10.00	06/24/87	68.00	8.00	
LEADGF	PPB	2.00	50.00	06/30/87	2.06	04/16/87	15.40	06/24/87	5.00	
MAGNES	PPB	0.00	45000.00	06/30/87	7430.00	04/16/87	{ 3.71}	06/24/87	(2.06)	
NITRATE	PPB	500.00	45000.00	06/30/87	1390.00	04/16/87	5090.00	04/17/87	4410.00	

TABLE A.5. (contd)

A.78

NAME	CONSTITUENT	UNITS	DETECTION	WATER LIMIT	STANDARD	SAMPLE DATE	2-26-28	SAMPLE DATE	3-1-1	SAMPLE DATE	3-1-2
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TABLE A.5. (contd)

PHTFIELD	0.10	-----	06/30/87	7.50	04/16/87	7.00	04/17/87	7.20	-----	-----
POTASSIUM	PPB	100.00	NR	4960.00	06/24/87	2400.00	06/24/87	6.40	04/17/87	2950.00
RADIUM	PCl/L	0.10	5.00	06/30/87	0.21	2340.00	06/24/87	3030.00	04/17/87	3030.00
SODIUM	PPB	100.00	06/30/87	16200.00	(0.16)	9790.00	04/17/87	10100.00	04/17/87	10600.00
SULFATE	PPB	500.00	06/30/87	14800.00	06/24/87	15200.00	06/24/87	16000.00	04/17/87	16000.00
TC	PPB	200.00	06/30/87	20100.00	+	20400.00	06/24/87	26200.00	04/17/87	26200.00
TDS	PPB	200.00	06/30/87	140000.00	+	NR	NR	NR	NR	NR
TOC	PPB	200.00	06/30/87	7129.00	04/16/87	487.00	06/24/87	502.00	04/17/87	788.00
TOXIC/L	PPB	20.00	06/30/87	51.30	NR	826.00	06/24/87	502.00	04/17/87	865.00
TRITIUM	PCI/L	500.00	20000.00	06/30/87	2350.00	04/16/87	586.00	NR	04/17/87	896.00
VANADIUM	PPB	0.50	600.00	(223.00)	04/16/87	13.90	04/16/87	8.58	04/17/87	{ 296.00 }

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
x - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	UNITS	DETECTION	WATER	SAMPLE	STANDARD	DATE	3-1-4	SAMPLE	DATE	3-1-5
BARIUM	PPB	6.00	10000.00	04/17/87	21.00	04/17/87	11.00	04/30/87	17.00	22.00	-----
BETA	PC/L	3.00	50.00	06/26/87	32.70	04/17/87	16.00	06/30/87	9.96	9.96	-----
CALCIUM	PPB	50.00	24000.00	04/17/87	22.10	06/24/87	6.00	06/30/87	12.96	6.47	(4.05)
CHLIFORM	PPB	10.00	19100.00	06/26/87	13.00	04/17/87	14.00	04/30/87	15.00	15.00	-----
CHLORIDE	PPB	500.00	19900.00	06/26/87	21.30	04/17/87	20.00	04/30/87	26.00	26.00	-----
CONDIFLD	UMHO	1.00	1.00	04/17/87	268.00	04/17/87	209.00	04/30/87	216.00	216.00	-----
FARTRIUM	PPB	10.00	(1300.0)	06/26/87	18.00	04/17/87	12.00	04/30/87	13.00	13.00	-----
FACLCIU	PPB	60.00	10000.00	04/17/87	23.00	06/24/87	15.00	04/30/87	18.00	18.00	-----
FCOPPER	PPB	10.00	(1300.0)	06/26/87	18200.00	04/17/87	21900.00	04/30/87	21100.00	21100.00	-----
FIRON	PPB	50.00	1400.00	06/26/87	113.00	04/17/87	12.00	04/30/87	10.00	10.00	-----
FLUORIDE	PPB	500.00	1400.00	06/26/87	113.00	04/17/87	12.00	04/30/87	15700.00	15700.00	-----
FOTASS	PPB	100.00	06/26/87	3620.00	06/24/87	3960.00	06/30/87	04/30/87	3290.00	3290.00	-----
FVANDIUM	PPB	100.00	06/26/87	2110.00	04/17/87	2360.00	06/30/87	04/30/87	1730.00	1730.00	-----
FZNIC	PPB	5.00	06/26/87	4530.00	04/17/87	4460.00	04/30/87	4360.00	NR	NR	-----
IRON	PPB	50.00	04/17/87	65.00	06/24/87	70.00	06/30/87	04/30/87	5.00	5.00	-----
LDAHPA	PC/L	2.00	15.00	04/17/87	65.00	06/24/87	70.00	06/30/87	NR	NR	-----
MAGNES	PPB	0.00	06/26/87	34.70 %	04/17/87	26.60 %	06/24/87	27.10 %	5.50 %	5.50 %	-----
NITRATE	PPB	500.00	45000.00	04/17/87	4460.00	06/24/87	3710.00	06/30/87	3630.00	3630.00	-----
WATER	PPB	0.00	04/17/87	4420.00	04/17/87	4460.00	04/17/87	4420.00	1860.00	1860.00	-----

- VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 + - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 * - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 NR - VALUE EXCEEDS SCREENING LEVEL FOR PRIMARY DRINKING WATER STANDARD.

VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES
 WATER STANDARD(S) IN PARATHESIS ARE PROPOSED ONLY

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	STANDARD	SAMPLE DATE	3-1-3	SAMPLE DATE	3-1-4	SAMPLE DATE	3-1-5
PHFIELD	0.10	PPB	04/17/87	7.10	04/17/87	6.90	04/30/87	6.30		
POTASUM	100.00	PPB	06/26/87	2470.00	06/24/87	6.10	06/30/87	6.40		
SODIUM	100.00	PPB	06/26/87	2050.00	06/24/87	1910.00	06/30/87	1890.00		
SULFATE	500.00	PPB	06/26/87	14500.00	04/17/87	9140.00	04/30/87	13500.00		
TOC	200.00	PPB	06/26/87	19700.00	04/17/87	17800.00	04/30/87	17600.00		
TRITIUM	500.00	PCl/L	20000.00	04/17/87	712.00	04/17/87	692.00	680.00	754.00	
ZINC	0.50	U-CHEM	600.00	04/17/87	557.00	04/17/87	520.00	500.00	530.00	
VANADUM	0.73	PPB	600.00	04/17/87	921.00	04/17/87	890.00	860.00	870.00	
U-CHLOR	0.50	PPB	600.00	04/17/87	471.00	04/17/87	440.00	410.00	420.00	
ZINC	5.00	PPB	600.00	04/17/87	25.50	23.20	20.50	18.00	19.00	
			(289.00)							

TABLE A.5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.
 - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.

WATER STANDARD(S) IN PARENTHESIS ARE PROPOSED ONLY

NAME	CONSTITUENT	DETECTION UNITS	LIMIT	WATER	SAMPLE	SAMPLE DATE	3-1-6	SAMPLE DATE	3-1-7	SAMPLE DATE	3-1-8
TABLE A.5. (Contd)											
BARIUM	PPB	50.00	1000.00	04/15/87	70.00	06/19/87	67.00	04/29/87	28.00	04/29/87	28.00
AMMONIUM	PPB	50.00	1000.00	04/15/87	11.00	06/19/87	19.00	04/15/87	20.00	06/30/87	30.00
BETA	PC/L	3.00	50.00	04/15/87	6.79	06/19/87	21.00	04/15/87	31.00	04/29/87	23.00
CALCIUM	PPB	50.00	1000.00	04/15/87	19100.00	{ 3.38 }	06/19/87	6.15	{ 3.12 }	06/19/87	{ 4.88 }
CHLIFORM	PPB	10.00	1000.00	04/15/87	14.00	06/19/87	21600.00	04/15/87	22600.00	04/29/87	17600.00
CHLORIDE	PPB	500.00	1000.00	04/15/87	26.00	06/19/87	12.00	06/19/87	12.00	06/30/87	16.00
CONDFLD	UMHO	1.00	1000.00	04/15/87	5100.00	06/19/87	4720.00	04/15/87	17900.00	04/29/87	12600.00
COPPER	PPB	10.00	(1300.0)	04/15/87	138.00	06/19/87	156.00	04/15/87	2120.00	04/29/87	209.00
FBARIUM	PPB	6.00	1000.00	04/15/87	14.00	06/19/87	62.00	06/19/87	11.00	04/15/87	16.00
FCALCIU	PPB	50.00	1000.00	04/15/87	14.00	06/19/87	19200.00	04/15/87	20400.00	04/29/87	19000.00
FLUORIDE	PPB	10.00	(1300.0)	04/15/87	15000.00	06/19/87	16500.00	04/15/87	16000.00	04/29/87	17400.00
FMANGAN	PPB	6.00	1000.00	04/15/87	3970.00	06/19/87	3480.00	04/15/87	3800.00	06/30/87	715.00
FOTASS	PPB	100.00	1000.00	04/15/87	1840.00	NR	NR	NR	NR	06/30/87	9.00
FSODIUM	PPB	100.00	1000.00	04/15/87	2160.00	06/19/87	1880.00	04/15/87	2100.00	04/29/87	22100.00
FVANDMI	PPB	5.00	1000.00	04/15/87	5.00	06/19/87	NR	NR	NR	06/30/87	5.00
IRON	PPB	50.00	1000.00	04/15/87	105.00	04/15/87	105.00	04/15/87	105.00	04/29/87	NR
LDALEPH	PC/L	2.00	15.00	04/15/87	14.80	06/19/87	55.00	04/15/87	40.50 %	04/29/87	18.20 %
MAGNES	PPB	0.00	1000.00	04/15/87	2.62	06/19/87	4.75	04/15/87	2.24.40 %	06/30/87	{ 3.27 }
MANGSE	PPB	6.00	1000.00	04/15/87	1.98	{ 1.98 }	4340.00	04/15/87	4370.00	06/19/87	5030.00
NITRATE	PPB	500.00	45000.00	04/15/87	NR	NR	NR	NR	NR	06/30/87	8.00
NR											

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCCLIDES
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED

+ - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
- VALUE EXCEEDS SPECIFYING DRINKING WATER STANDARD.

* - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.

% - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

NAME	CONSTITUENT	DETECTION UNITS	WATER STANDARD	SAMPLE DATE	3-1-6	SAMPLE DATE	3-1-7	SAMPLE DATE	3-1-8
NITRATE	PPB	500.00	45000.00	04/15/87	1930.00	06/19/87	2340.00	06/30/87	1550.00
PHFIELD	PPB	0.10		06/19/87	1470.00	NR	NR	NR	NR
POTASSIUM	PPB	100.00		04/15/87	6.70	04/15/87	6.30	04/29/87	7.26
RADIUM	PCl/L	0.10		06/19/87	6.70	06/19/87	6.80	06/30/87	7.50
SODIUM	PPB	100.00		04/15/87	7640.00	04/15/87	14600.00	04/29/87	22600.00
SULFATE	PPB	500.00		06/19/87	7410.00	06/19/87	16100.00	06/30/87	21400.00
TDC	PPB	200.00		04/15/87	15500.00	04/15/87	19600.00	04/29/87	18100.00
ZINC	PPB	0.50	600.00	06/19/87	904.00	06/19/87	794.00	06/30/87	1490.00

TABLE A.5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 NR - VALUES IN () ARE COUNTING ERRORS FOR RADIONUCLEIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- X - VALUE EXCEEDS SCRENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- NR - ANALYSIS NOT REQUEUED FOR RADIONUCLIDES
- WATER STANDARDS(S) IN [] ARE COUNTING ERRORS FOR RADIONUCLIDES VALUES IN [] ARE PARENTHESES ARE PROPOSED ONLY

TABLE A.5. (contd)

TABLE A.5. (contd)

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NAME	UNITS	DETECTION	WATER	SAMPLE	SAMPLE DATE	3-1-12	3-1-13	SAMPLE DATE	3-1-14
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AMMONIUM	PPB	50.00	1000.00	04/27/87	102.00	06/18/87	78.00	06/18/87	86.00
BETA	PC/L	3.00	50.00	04/27/87	19.00	06/18/87	10.10	04/27/87	16.00
CALCIUM	PPB	50.00	16400.00	04/27/87	21800.00	06/18/87	16000.00	04/27/87	23400.00
CHLIFORM	PPB	10.00	10.00	04/27/87	14.00	06/18/87	24.00	06/18/87	12.00
CHLORID	PPB	500.00	14600.00	04/27/87	14400.00	06/18/87	14400.00	04/27/87	9930.00
CHROMUM	PPB	10.00	50.00	04/27/87	10.00	06/18/87	6350.00	06/18/87	13700.00
CONDLFD	UMH0	1.00	50.00	04/27/87	107.00	04/27/87	122.00	06/18/87	171.00
COPPER	PPB	10.00	(1300.0)	04/27/87	149.00	06/18/87	177.00	04/29/87	124.00
FACLUIM	PPB	50.00	1000.00	04/27/87	19.00	06/18/87	23.00	04/27/87	13.00
FCOOPER	PPB	10.00	(1300.0)	04/27/87	20.00	06/18/87	22000.00	04/27/87	23400.00
FLOORFID	PPB	500.00	1400.00	06/18/87	500.00	06/18/87	111.00	04/27/87	13.00
FPTASS	PPB	100.00	3710.00	06/18/87	3710.00	06/18/87	3410.00	04/27/87	3010.00
FSODIUM	PPB	100.00	3400.00	06/18/87	1990.00	06/18/87	3410.00	04/27/87	2270.00
FVANDAI	PPB	5.00	9410.00	06/18/87	9250.00	06/18/87	9780.00	04/29/87	7600.00
GIRON	PPB	5.00	1330.00	06/18/87	9870.00	06/18/87	1330.00	04/27/87	3010.00
LOALPRA	PCI/L	2.00	15.00	04/27/87	63.30 %	04/27/87	13.20	04/29/87	114.00
MAGNES	PPB	0.00	45000.00	04/27/87	4530.00	04/27/87	5720.00	04/29/87	4660.00
NITRATE	PPB	500.00	45000.00	06/18/87	3690.00	06/18/87	6940.00	06/18/87	5410.00
PHFIELD	PPB	0.10	0.10	04/27/87	1790.00	04/27/87	6.60	04/27/87	7.50
POTASUM	PPB	100.00	1870.00	06/18/87	1870.00	06/18/87	7.10	06/18/87	6.60
* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.									
+ - ANALYSIS LIMIT WAS NOT AVAILABLE FOR COMPARISON.									
# - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.									
% - VALUE EXCEEDS SCRENING LEVEL FOR FURTHER INVESTIGATION.									
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.									
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY.									

NAME	CONSTITUENT	UNITS	DETECTION	WATER	SAMPLE	SAMPLE DATE	SAMPLE DATE	SAMPLE DATE	SAMPLE DATE
RADIUM	PC/L	0.10	5.00	04/27/87	0.23 (0.17)	04/27/87	0.12 (0.13)	04/29/87	3-1-14
SODIUM	PPB	100.00	04/27/87	13600.00	9780.00	04/27/87	0.12	04/29/87	3-1-13
SULFATE	PPB	500.00	06/18/87	9150.00	9600.00	06/18/87	0.06 (0.13)	06/18/87	3-1-12
ZINC	PPB	5.00	06/18/87	905.00	905.00	06/18/87	5.00	06/18/87	3-1-13
TOC	PPB	200.00	04/27/87	750.00	631.00	04/27/87	626.00	04/29/87	25200.00
VANADUM	PPB	5.00	06/18/87	813.00	813.00	06/18/87	765.00	06/18/87	16100.00

TABLE A.5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 X - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN () ARE COUNTING ERRORS FOR RADIONUCIDES
 WATER STANDARD(S) IN PARATHESIS ARE PROPOSED ONLY

NAME	CONSTITUENT UNITS	DETECTOR	LIMIT	SAMPLE	STANDARD	WATER DATE	3-1-16B DATE	3-1-16A DATE	SAMPLE DATE	3-1-16B
AMMONIUM	PPB	50.00	06/18/87	76.00	06/18/87	NR	-----	-----	-----	-----
BARIUM	PPB	6.00	1000.00	04/27/87	44.00	06/18/87	49.00	06/05/87	04/24/87	54.00
BETA	PC/L	3.00	50.00	04/27/87	17.30	04/27/87	16.20	04/27/87	04/24/87	7.27
CALCIUM	PPB	50.00	06/18/87	{ 4.46 }	{ 9.51 }	06/05/87	{ 3.72 }	06/09/87	{ 3.45 }	7.99
CHLORIDE	PPB	500.00	04/27/87	15600.00	NR	04/27/87	23400.00	06/05/87	04/24/87	21000.00
CHROMIUM	PPB	10.00	50.00	04/27/87	350.00	06/18/87	377.00	06/29/87	04/24/87	365.00
COBALTICU	PPB	50.00	06/18/87	43.00	06/05/87	27.00	04/27/87	22900.00	06/09/87	51.00
FLUORIDE	PPB	50.00	06/18/87	43300.00	06/05/87	27.00	04/27/87	22600.00	06/09/87	20900.00
FIRION	PPB	10.00	(1300.0)	44400.00	06/18/87	15.00	04/27/87	22600.00	06/09/87	21500.00
FMANGANE	PPB	0.00	04/27/87	10900.00	NR	06/18/87	4250.00	06/06/87	04/24/87	6900.00
FPTASS	PPB	100.00	04/27/87	5040.00	04/27/87	2460.00	04/27/87	2460.00	04/24/87	5490.00
FSODIUM	PPB	100.00	06/18/87	5910.00	06/05/87	12100.00	04/27/87	12100.00	04/24/87	5470.00
FZINC	PPB	5.00	06/18/87	21300.00	06/05/87	11300.00	04/27/87	25.00	04/24/87	13.00
IRON	PPB	50.00	04/27/87	132.00	06/18/87	14.00	04/27/87	224.00	06/09/87	9.00
LOALPHA	PC/L	2.00	15.00	04/27/87	16.60	x	04/27/87	13.00	04/24/87	2.20
MANGANESE	PPB	5.00	06/18/87	NR	06/05/87	10.00	06/05/87	10.00	06/09/87	1.41
NICKEL	PPB	10.00	04/27/87	11600.00	04/27/87	4020.00	06/06/87	4020.00	04/24/87	9.00
PHOSPHATE	PPB	100.00	06/18/87	16400.00	06/05/87	12100.00	04/27/87	12100.00	04/24/87	147.00
POSSUM	PPB	100.00	04/27/87	2600.00	06/05/87	14.00	04/27/87	25.00	06/09/87	13.00
PROTASS	PPB	100.00	04/27/87	2460.00	04/27/87	224.00	04/27/87	224.00	06/09/87	147.00
RUBIDIUM	PPB	100.00	04/27/87	5040.00	04/27/87	4020.00	06/06/87	4020.00	04/24/87	9.00
SODIUM	PPB	100.00	04/27/87	10900.00	04/27/87	4250.00	06/06/87	4250.00	04/24/87	9.00
ZINC	PPB	5.00	06/18/87	NR	06/05/87	11.70	06/05/87	11.70	06/09/87	1.43

TABLE A.5. (contd)

NAME	CONSTITUENT	UNITS	DETECTOR	WATER LIMIT	SAMPLE DATE	3-1-15	SAMPLE DATE	3-1-16A	SAMPLE DATE	3-1-16B
NICKEL	NITRATE	PPB	PPB	500.00	45000.00	04/27/87	16900.00	04/24/87	5770.00	10.00
MANGANESE	MANGANESE	PPB	PPB	5.00	06/18/87	11800.00	06/05/87	4030.00	06/09/87	6330.00
MAGNESIUM	MAGNESIUM	PPB	PPB	0.00	04/27/87	11100.00	04/27/87	4280.00	04/24/87	7010.00
ZINC	VANADUM	PPB	PPB	5.00	06/18/87	10.00	04/27/87	NR	NR	23.00
TRICENE	TRICENE	PPB	PPB	10.00	(5.0)	7.00	NR	NR	06/09/87	24.10
TOC	TOC	PPB	PPB	200.00	04/27/87	4100.00	04/27/87	19500.00	04/24/87	318.00
SULFATE	SULFATE	PPB	PPB	500.00	06/18/87	21700.00	06/05/87	15100.00	04/24/87	6920.00
ZODIUM	ZODIUM	PPB	PPB	100.00	04/27/87	17000.00	04/27/87	12300.00	04/24/87	53400.00
RADIUM	RADIUM	PCl/L	PPB	0.10	0.10	5.00	04/27/87	0.29	0.29	0.17
POTASSIUM	POTASSIUM	PPB	PPB	100.00	04/27/87	5030.00	06/05/87	2400.00	04/24/87	5580.00
PHFIELD	PHFIELD	PPB	PPB	0.10	04/27/87	7.00	06/18/87	6.10	04/24/87	7.10
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TABLE A.5. (contd)

WATER STANDARD(s) IN PARENTHESES ARE PROPOSED ONLY
VALUES IN () ARE COUNTING ERRORS FOR RADIONUCIDES

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.

■ - ANALYSIS NOT REQUESTED OR NOT YET REPORTED FOR COMPARISON.

■■ - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

NAME	CONSTITUENT	DETECTION UNITS	LIMIT	WATER STANDARD	SAMPLE DATE	3-1-16C	SAMPLE DATE	3-1-16D	SAMPLE DATE	3-1-17A
ALUMINUM	PBP	150.00	04/24/87	102.00	06/29/87	175.00	NR	63.00	06/29/87	-----
BARIUM	PBP	6.00	1000.00	04/24/87	136.00	NR	64.00	06/29/87	80.00	04/23/87
BETA	PCI/L	3.00	50.00	04/24/87	61.00	NR	61.00	06/29/87	14.50	06/04/87
CALCIUM	PBP	2.00	50.00	04/24/87	14800.00	NR	15900.00	06/09/87	13500.00	04/23/87
CHLIFORM	PBP	10.00	50.00	04/24/87	10900.00	NR	13100.00	06/09/87	11100.00	04/23/87
CHLORIDE	PBP	500.00	04/24/87	33.00	06/09/87	20.00	33.00	06/09/87	NR	06/04/87
CONDIFLD	UMHO	1.00	50.00	04/24/87	20.00	NR	20.00	06/09/87	NR	04/23/87
COPPER	PBP	10.00	(1300.0)	287.00	06/29/87	287.00	287.00	06/29/87	NR	06/04/87
FBARIUM	PBP	6.00	1000.00	04/24/87	64.00	NR	64.00	06/23/87	169.00	04/23/87
FLUORIDE	PBP	500.00	04/24/87	1400.00	NR	1400.00	1570.00	06/09/87	1770.00 *	06/04/87
FMANGAN	PBP	5.00	04/24/87	5420.00	06/09/87	1530.00	1530.00	06/09/87	3970.00	06/04/87
FPTOTASS	PBP	100.00	04/24/87	49.00	06/09/87	49.00	49.00	06/09/87	4700.00	06/04/87
FZINC	PBP	5.00	04/24/87	5400.00	06/09/87	6570.00	6570.00	06/09/87	16700.00	06/04/87
FSODIUM	PBP	100.00	04/24/87	41.00	06/09/87	41.00	41.00	06/09/87	2180.00	06/04/87
IRON	PBP	50.00	04/24/87	NR	06/09/87	NR	NR	06/09/87	129.00	04/23/87

TABLE A.5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 + - ANALYSIS LIMIT WAS NOT AVAILABLE FOR REPORTED CONCENTRATION.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 NR - WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES
 + - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	STANDARD	SAMPLE DATE	SAMPLE 3-1-16C	SAMPLE DATE	SAMPLE 3-1-16D	SAMPLE DATE	SAMPLE 3-1-17A
L0ALPHA	PCl/L	2.00	15.00	06/09/87	4.20 (1.71)	04/24/87 5370.00	06/29/87 5250.00	5420.00 NR	04/23/87 64.00	62.20 % (5.59)
MAGNES	PPB	0.00	15.00	06/09/87	4.20 (1.71)	04/24/87 5370.00	06/29/87 5250.00	5420.00 NR	04/23/87 64.00	4030.00 4400.00
MANGES	PPB	5.00	49.00	06/09/87	49.00	06/09/87 19.00	06/29/87 12.00	64.00	06/04/87 NR	4030.00 4400.00
NICKEL	PPB	10.00	45000.00	06/09/87	04/24/87 19.00	06/09/87 12.00	06/29/87 6.00	64.00	06/04/87 NR	1570.00 NR
NITRATE	PPB	500.00	450000.00	06/09/87	04/24/87 563.00	06/09/87 7.40	06/29/87 6.50	6650.00 NR	06/26/87 06/04/87	2180.00 6.30
PHFIELD	PPB	0.10	1800.00	06/09/87	04/24/87 1800.00	06/09/87 7.10	06/29/87 6.50	6650.00 NR	04/23/87 06/04/87	1570.00 2180.00
POTASUM	PPB	100.00	6600.00	06/09/87	04/24/87 6600.00	06/09/87 6.50	06/29/87 6.50	6650.00 NR	06/26/87 06/04/87	5.80 6.30
RADIUM	PCl/L	0.10	5.00	06/09/87	04/24/87 5670.00	06/09/87 6.50	06/29/87 6.18	6650.00 NR	04/23/87 06/04/87	2050.00 1740.00
SODIUM	PPB	1000.00	68200.00	06/29/87	04/24/87 49300.00	06/29/87 49300.00	06/29/87 49300.00	61400.00 NR	04/23/87 06/04/87	17000.00 14700.00
SULFATE	PPB	500.00	60600.00	06/09/87	04/24/87 49300.00	06/29/87 49300.00	06/29/87 49300.00	62000.00 NR	04/23/87 06/04/87	17500.00 20000.00
T0C	PPB	200.00	60600.00	06/09/87	04/24/87 49300.00	06/29/87 49300.00	06/29/87 49300.00	62000.00 NR	04/23/87 06/04/87	743.00 881.00
ZINC	VANADUM	PPB	10.00	10.00	06/09/87	06/09/87 10.00	06/29/87 10.00	13.00	04/23/87	6.00

TABLE A.5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 NR - ANALYSIS NOT AVAILABLE FOR COMPARISON
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
 # - VALUE EXCEEDS SCREENING LEVEL FOR RADIOACTIVE CONSTITUENTS
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY.

NAME	DETECTION	WATER	SAMPLE	DATE	3-1-17B	SAMPLE	DATE	3-1-18A
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TABLE A.5. (contd)

AMMONIUM	PPB	50.00	04/23/87	98.00	04/23/87	99.00	06/18/87	63.00
BARIUM	PPB	6.00	1000.00	06/05/87	102.00	06/05/87	88.00	NR
BEITA	PCI/L	3.00	50.00	04/23/87	62.00	04/23/87	74.00	04/22/87
CHLORIDE	PPB	500.00	06/05/87	18700.00	06/05/87	8600.00	06/18/87	42200.00
CALCIUM	PPB	50.00	04/23/87	19300.00	04/23/87	10300.00	04/22/87	46100.00
CHROMIUM	PPB	50.00	06/05/87	7.07	06/05/87	14.20	06/18/87	{ 4.13}
CONDIFLD	UMHO	1.00	06/05/87	19.00	06/05/87	329.00	NR	493.00
FARSENIT	PPB	6.00	10000.00	61.00	04/23/87	79.00	04/22/87	7.00
FBARIUM	PPB	50.00	04/23/87	65.00	04/23/87	79.00	04/22/87	46.00
FCLACIU	PPB	50.00	06/05/87	18300.00	06/05/87	10600.00	06/18/87	48.00
FIRON	PPB	50.00	06/05/87	18500.00	06/05/87	10700.00	06/18/87	44300.00
FLUORID	PPB	500.00	04/23/87	1400.00	04/23/87	1340.00	NR	NR
FMANGAN	PPB	0.00	06/05/87	1260.00	06/05/87	4570.00	04/22/87	12160.00
FMANGANE	PPB	0.00	06/05/87	6350.00	06/05/87	4630.00	06/18/87	2080.00
FPTASS	PPB	100.00	04/23/87	6730.00	04/23/87	9840.00	04/22/87	6050.00
FSODIUM	PPB	100.00	06/05/87	5960.00	06/05/87	10300.00	06/18/87	5880.00
FVANDAI	PPB	5.00	06/05/87	47900.00	04/23/87	66400.00	04/22/87	23400.00
FZINC	PPB	5.00	06/05/87	5730.00	04/23/87	9840.00	04/22/87	21700.00
IIRON	PPB	50.00	06/05/87	1000.00	04/23/87	176.00	04/22/87	159.00
LOALPHA	PCI/L	2.00	15.00	06/05/87	176.00	04/23/87	132.00	04/22/87
MAGNES	PPB	0.00	04/23/87	NR	NR	NR	06/18/87	{ 3.31 }
MANGANESE	PPB	0.00	04/23/87	1.66	04/23/87	1.66	04/22/87	1.66

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 NR - ANALYSIS NOT AVAILABLE FOR COMPARISON.

VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES
 IN WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY.

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	STANDARD DATE	SAMPLE DATE	3-1-17B	SAMPLE DATE	3-1-17C	SAMPLE DATE	3-1-18A
MANGANESE	PPB	0.00	6610.00	06/05/87	4990.00	66/05/87	04/23/87	24.00	66/18/87	11900.00
METHYCH	PPB	10.00	69.00	06/05/87	69.00	06/05/87	10.00	10.00	66/05/87	NR
NITRATE	PPB	500.00	45000.00	06/05/87	16.00	06/05/87	500.00	500.00	66/05/87	NR
POTASUM	PPB	100.00	6.90	06/26/87	7.20	06/26/87	5920.00	9920.00	04/23/87	6210.00
RADIUM	PC/L	0.10	5.00	04/23/87	0.38	06/05/87	0.38	0.38	06/05/87	0.17
SODIUM	PPB	100.00	47800.00	04/23/87	66400.00	66/05/87	66200.00	4540.00	06/18/87	23400.00
SULFATE	PPB	500.00	51500.00	06/05/87	46200.00	04/23/87	46200.00	4540.00	04/22/87	48200.00
TOC	PPB	200.00	06/05/87	46200.00	04/23/87	297.00	245.00	245.00	04/22/87	266.00
TRANDCE	PPB	10.00	(70.0)	06/05/87	31.00	04/23/87	291.00	291.00	06/18/87	401.00
VANADUM	PPB	5.00	NR	06/05/87	27.00	06/05/87	28.00	NR	NR	NR
ZINC	PPB	5.00	NR	04/23/87	10.00	06/05/87	8.00	NR	04/22/87	12.00

TABLE A.5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 NR - COUNTING ERRORS FOR RADIONUCLEIDES
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.5. (contd.)

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TABLE A.5. (contd)

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	STANDARD DATE	SAMPLE DATE	3-1-18C	SAMPLE DATE	3-1-19
FLUORIDE	PPB	500.00	1400.00	06/18/87	1870.00 *	06/18/87	1866.00 *	580.00
MAGNESIUM	PPB	0.00	1400.00	04/22/87	5390.00	04/22/87	5440.00	3330.00
FERRIC GAN	PPB	5.00	0.00	06/18/87	5160.00	06/18/87	5110.00	4170.00
FONICKEL	PPB	10.00	0.00	04/22/87	46.00	04/22/87	46.00	45.00
MANGANESE	PPB	50.00	100.00	06/18/87	64800.00	06/18/87	62600.00	18600.00
FSDIUM	PPB	100.00	0.00	04/22/87	6610.00	04/22/87	6280.00	1700.00
FOTASS	PPB	100.00	0.00	04/22/87	6610.00	06/18/87	6660.00	1400.00
FONICKEL	PPB	10.00	0.00	04/22/87	46.00	04/22/87	45.00	45.00
FMANGAN	PPB	5.00	0.00	06/18/87	5110.00	06/18/87	5110.00	4170.00
FMANGANESES	PPB	500.00	1400.00	06/18/87	1866.00 *	06/18/87	1866.00 *	580.00
IRON	PPB	50.00	0.00	04/22/87	233.00	04/22/87	125.00	8300.00
ZINC	PPB	5.00	0.00	04/22/87	8.00	04/22/87	8.00	11.00
LOALPHA	PC/L	2.00	15.00	06/18/87	175.00	06/18/87	111.00	1600.00
MAGNES	PPB	0.00	0.00	04/22/87	5530.00	04/22/87	5410.00	3430.00
MANGESIE	PPB	5.00	0.00	06/18/87	4890.00	06/18/87	5250.00	3660.00
NICKEL	PPB	10.00	0.00	04/22/87	45.00	04/22/87	48.00	30.00
NITRATE	PPB	500.00	45000.00	NR	NR	NR	NR	NR
PHFIELD	PPB	0.10	0.00	04/22/87	6.80	04/22/87	7.30	NR
POTASUM	PPB	100.00	0.00	06/18/87	7.90	06/18/87	8.00	6.00
RADIUM	PC/L	0.10	5.00	04/22/87	0.19	04/22/87	0.14	0.13

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
VALUES IN {} ARE COUNTING ERRORS FOR RADIONUCCLIDES
NR - ANALYSIS NOT REQUEUED OR NOT YET REPORTED

* - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.

* - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.

- VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	SAMPLE STANDARD	SAMPLE DATE	SAMPLE DATE	SAMPLE DATE	-----
				3-1-18B	3-1-18C	3-1-18C	3-1-19	3-1-19
RADIUM	PC/L	0.10	5.00	06/18/87	0.22	04/27/87	0.16	(0.14)
SODIUM	PPB	100.00	04/22/87	65400.00	66300.00	04/22/87	19200.00	18400.00
SULFATE	PPB	500.00	04/22/87	701.00	NR	06/18/87	11300.00	14900.00
TOC	PPB	200.00	04/22/87	NR	06/18/87	1910.00	04/27/87	17000.00
VANADUM	PPB	5.00	04/22/87	401.00	323.00	06/18/87	252.00	40/02/87
ZINC	PPB	5.00	04/22/87	NR	NR	06/18/87	NR	1650.00

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TABLE A.5. (contd)

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
 VALUES IN () ARE COUNTING ERRORS FOR RADIONUCLEIDES
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 # - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

TABLE A.5. (contd)

NAME	CONSTITUENT	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	3-2-1	SAMPLE DATE	3-3-7	SAMPLE DATE	3-3-10
BARIUM	PPB	6.00	1000.00	04/21/87	46.00	04/28/87	34.00	04/14/87	42.00	-----
BETA	PC/L	3.00	50.00	06/24/87	39.00	06/24/87	16.50	04/21/87	13.70	15.40
CALCIUM	PPB	50.00	24300.00	04/21/87	{ 3.91 }	06/24/87	9.62	06/24/87	{ 7.41 }	{ 4.10 }
CHLORIDE	PPB	10.00	20800.00	06/24/87	12.00	06/24/87	12.00	06/25/87	25400.00	12.00
COLIFORM	MPN	2.20	1.00	06/24/87	211.00	04/21/87	184.00	06/24/87	308.00	04/14/87
FARINITY	PPB	6.00	10000.00	04/21/87	211.00	06/24/87	39.00	06/24/87	32.00	46.00
FAT	PPB	50.00	21600.00	04/21/87	24600.00	06/24/87	38400.00	04/28/87	38400.00	45.00
FIBRON	PPB	50.00	35700.00	06/24/87	35700.00	06/24/87	35700.00	04/14/87	31300.00	27800.00
FMANGAN	PPB	5.00	7990.00	04/28/87	4780.00	06/24/87	7980.00	06/25/87	6230.00	89.00
FMANGANESES	PPB	0.00	NR	04/21/87	5080.00	04/28/87	4780.00	06/24/87	7870.00	04/14/87
FON	PPB	5.00	NR	06/24/87	7990.00	06/24/87	7990.00	06/25/87	6230.00	89.00
FZINC	PPB	5.00	NR	04/21/87	7990.00	06/24/87	7990.00	06/25/87	6230.00	89.00
IRON	PPB	50.00	NR	04/21/87	19300.00	06/24/87	13600.00	04/28/87	16300.00	100.00
LALPHA	PC/L	2.00	15.00	04/21/87	94.00	06/24/87	7.86	04/28/87	7.22	267.00
MAGNES	PPB	0.00	NR	06/24/87	8.68	06/24/87	10.30	06/25/87	{ 2.12 }	13.00
METHYCH	PPB	10.00	45000.00	04/21/87	15100.00	04/28/87	11500.00	04/28/87	11500.00	24700.00
METYLIC	PPB	500.00	45000.00	04/21/87	11500.00	04/28/87	11500.00	04/28/87	11500.00	25000.00
WATER STANDARD(S) IN PARENTHESIS ARE PROPOSED ONLY										
VALUES IN () ARE COUNTING ERRORS FOR RADIONUCCLIDES										
+ - ANALYSIS NOT REQUESTED OR NOT YET REPORTED										
- DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.										
* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.										
** - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.										

WATER STANDARDS IN () ARE COUNTING ERRORS FOR RADIONUCCLIDES
 VALUES IN () ARE COUNTING ERRORS FOR RADIONUCCLIDES

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NAME	UNITS	DETECTION	WATER	SAMPLE	STANDARD	DATE	3-2-1	SAMPLE	DATE	3-3-7	SAMPLE	DATE	3-3-10
PHFIELD	0.10	04/21/87	5.90	04/28/87	7.30	04/14/87	-----	-----	-----	-----	-----	-----	-----
POTASSIUM	PPB	100.00	06/24/87	6.30	04/21/87	3360.00	06/24/87	4230.00	04/28/87	4230.00	06/24/87	3210.00	06.80
RADIUM	PCI/L	0.10	5.00	04/21/87	3130.00	06/24/87	5210.00	04/28/87	5210.00	06/24/87	3120.00	04/14/87	3120.00
SODIUM	PPB	100.00	04/21/87	13400.00	04/28/87	17200.00	06/24/87	21500.00	04/28/87	21500.00	06/24/87	27100.00	06.80
SULFATE	PPB	500.00	06/24/87	12700.00	04/21/87	23100.00	06/24/87	31700.00	04/28/87	31700.00	06/25/87	31100.00	06.80
TOC	PPB	200.00	04/21/87	969.00	04/21/87	18600.00	06/24/87	31100.00	04/28/87	31100.00	06/25/87	25700.00	06.80
TOX	PPB	100.00	04/21/87	764.00	06/24/87	579.00	04/21/87	579.00	06/24/87	579.00	04/14/87	514.00	06.80
TRITIUM	PCI/L	500.00	20000.00	04/21/87	1170.00	04/28/87	2210.00	04/21/87	2210.00	04/28/87	225.00	04/14/87	1290.00
VANADUM	PCI/L	0.50	600.00	04/21/87	{ 305.00 }	04/28/87	7.36	04/14/87	7.36	04/28/87	{ 307.00 }	04/14/87	13.90
ZINC	PPB	5.00	NR	04/21/87	8.00	04/28/87	8.00	04/14/87	8.00	04/28/87	8.00	04/14/87	6.00

TABLE A.5. (contd)

9 1 1 1 8 8 9 1 4 7 4

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 X - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.
 NR - ANALYSIS LIMIT WAS NOT AVAILABLE FOR COMPARISON.
 NR - COUNTING ERRORS FOR RADIONUCIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY.

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMMIT	SAMPLE DATE	3-4-1	SAMPLE DATE	3-4-7	SAMPLE DATE	3-4-11
ARSENIC	PPB	5.00	50.00	04/21/87	5.00	04/21/87	39.99	04/01/87	32.00
BARIUM	PPB	6.00	1000.00	04/21/87	32.00	06/25/87	39.00	04/23/87	32.00
CHLORIDE	PPB	500.00	500.00	06/25/87	3860.00	06/25/87	36100.00	04/23/87	37100.00
CALCIUM	PPB	50.00	40200.00	04/21/87	42500.00	04/21/87	42500.00	04/01/87	37300.00
CHROMIUM	PPB	10.00	50.00	04/21/87	312.00	04/21/87	1833.00	04/01/87	209.00
COLEFIRM CONFLD	MPN MPN	2.20	1.00	04/21/87	2.20	06/25/87	*	04/01/87	14.00
FARSENIT	PPB	6.00	1000.00	04/21/87	32.00	06/25/87	198.00	04/23/87	276.00
FERRIUM	PPB	50.00	41100.00	04/21/87	38.00	06/25/87	40100.00	04/01/87	43.00
FOLACIUM	PPB	50.00	4100.00	06/25/87	42.00	06/25/87	4100.00	04/01/87	31.00
FOMATES	PPB	0.00	0.00	04/21/87	7920.00	04/21/87	7850.00	04/01/87	7230.00
FOMAGNES	PPB	0.00	0.00	06/25/87	8070.00	06/25/87	7770.00	04/01/87	7440.00
FOSIDIUM	PPB	100.00	100.00	04/21/87	4700.00	06/25/87	4430.00	04/01/87	4130.00
FVANANDI	PPB	5.00	5.00	04/21/87	17500.00	06/25/87	18100.00	04/01/87	16300.00
ZINC	PPB	6.00	6.00	04/21/87	17500.00	04/21/87	18100.00	04/01/87	17900.00
IRON	PPB	50.00	50.00	04/21/87	17500.00	06/25/87	18100.00	04/01/87	16300.00
LOALPHA	PCl/L	2.00	15.00	04/21/87	10.70	04/21/87	30.80 %	{ 2.44 }	10.30

TABLE A.5. (contd)

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCIDES
NR - ANALYSIS NOT REQUESTED OR NOT REPORTED

+ - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

. - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.

NAME UNITS DETECTION STANDARD WATER SAMPLE DATE 3-4-1 SAMPLE DATE 3-4-7
CONSTITUENT LIMT STANDARO DATE 3-4-1

LOALPHA PCI/L 2.00 15.00 06/25/87 11.80 { 2.59 } NR 06/25/87 34.20 % NR 04/23/87 8.23
MAGNES PFB 0.06 04/21/87 7890.00 NR 06/25/87 7330.00 NR 04/21/87 04/23/87 11.90
NITRATE PFB 500.00 45000.00 04/21/87 18000.00 NR 06/25/87 17600.00 NR 04/21/87 06/25/87 8680.00
PHFIELD PFB 0.10 04/21/87 15800.00 04/21/87 19400.00 06/25/87 6.30 04/21/87 04/01/87 13700.00
POTASUM PFB 100.00 04/21/87 4690.00 NR 06/25/87 7.40 04/21/87 04/23/87 7.70
RADIIUM PCI/L 0.10 5.00 04/21/87 4560.00 NR 06/25/87 6.30 04/21/87 04/01/87 13700.00
SODIUM PFB 100.00 04/21/87 17400.00 06/25/87 19200.00 04/01/87 15900.00
A.100 SULFATE PFB 500.00 04/21/87 16300.00 06/25/87 17000.00 04/01/87 16600.00
TOC PFB 200.00 04/21/87 27000.00 NR 06/25/87 32600.00 04/01/87 26600.00
TRITIUM PFB 100.00 04/21/87 20000.00 NR 04/21/87 369.00 04/21/87 06/25/87 848.00
VANADUM PCI/L 0.50 04/21/87 600.00 04/21/87 11.40 { 309.00 } NR 06/25/87 7.00 04/01/87 9.00
ZINC PFB 5.00 04/21/87 5.00 NR 04/21/87 5.00 NR 06/25/87 5.00 NR 04/21/87 8.00

WATER STANDARD(S) IN PARENTHESIS ARE PROPOSED ONLY
VALUES IN () ARE COUNTING ERRORS FOR RADIONUCIDES
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
% - VALUE EXCEEDS SCRENNING PRIMARY DRINKING WATER STANDARD.
* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

NAME UNITS DETECTION STANDARD WATER SAMPLE DATE 3-4-1 SAMPLE DATE 3-4-7
CONSTITUENT LIMT STANDARO DATE 3-4-1

TABLE A.5. (Contd)

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TABLE A.5. (contd)

NAME	CONSTITUENT	DETECTION UNITS	WATER LIMIT	STANDARD	SAMPLE DATE	3-8-2	SAMPLE DATE	6-S19-E13	SAMPLE DATE	6-S30E15A
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AMMONIUM	PPB	50.00	06/19/87	70.00	NR	04/30/87	45.00	04/28/87	61.00	NR
BARIUM	PPB	6.00	1000.00	06/19/87	5.00	04/15/87	46.00	06/25/87	56.00	61.00
BETA	PC/L	3.00	50.00	06/19/87	43.00	04/15/87	8.89	04/30/87	9.54	9.83
CALCIUM	PPB	50.00	04/15/87	42700.00	41600.00	04/30/87	11500.00	06/25/87	67700.00	(3.99)
CHLORIDE	PPB	500.00	06/19/87	40600.00	4220.00	06/25/87	15600.00	04/28/87	62800.00	416.00
COLIFORM	MPN	2.20	1.00	06/19/87	11700.00	06/25/87	17700.00	06/25/87	4810.00	6610.00
CONDIFLD	UMHO	1.00	04/15/87	360.00	04/30/87	329.00	06/25/87	258.00	416.00	259.00
FARSENIT	PPB	5.00	06/19/87	1000.00	04/15/87	10.00	04/30/87	7.00	04/30/87	7.00
FLACLU	PPB	50.00	06/19/87	39.00	04/15/87	40.00	04/30/87	46.00	06/25/87	57.00
FMAGNES	PPB	0.00	06/19/87	40100.00	42400.00	06/25/87	43800.00	04/28/87	66100.00	63.00
FOTASS	PPB	100.00	06/19/87	40300.00	42600.00	04/15/87	12900.00	04/30/87	12500.00	04/28/87
FVANADIU	PPB	100.00	06/19/87	19300.00	22500.00	04/15/87	18400.00	06/25/87	13300.00	13600.00
FSDODIUM	PPB	0.00	06/19/87	23100.00	23100.00	04/15/87	22500.00	06/25/87	6300.00	6190.00
FZINC	PPB	50.00	06/25/87	NR	06/25/87	9.00	06/25/87	18.00	04/28/87	79.00
IRON	PPB	50.00	06/25/87	NR	06/25/87	76.00	04/28/87	76.00	04/28/87	102.00
L0ALDF	PPB	50.00	06/19/87	5.00	06/19/87	2.34	04/30/87	2.29	04/30/87	2.29
MAGNES	PPB	0.00	04/15/87	9000.00	04/30/87	{ 1.50 }	06/25/87	{ 1.47 }	06/25/87	NR
NITRATE	PPB	500.00	04/15/87	9100.00	06/25/87	22100.00	04/28/87	12100.00	12600.00	12700.00
% - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.										
# - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.										
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.										
* - VALUE EXCEEDS PROPOSED SCREENING LEVEL FOR FURTHER INVESTIGATION.										
** - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.										
WATER STANDARDS ARE PROPOSED ONLY.										

VALUES IN () ARE COUNTING ERRORS FOR RADIONUCLEIDES

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.

% - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

- ANALYSIS NOT REQUESTED OR NOT YET REPORTED.

* - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.

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***** - ANALYSIS NOT REQUESTED OR NOT YET REPORTED.

NAME	DETECTIN	LIMIT	WATER	SAMPLE	DATE	3-8-2	SAMPLE	DATE	6-S19-E13	SAMPLE	DATE	6-S30E15A
PHFIELD	PPB	0.10	04/15/87	7.20	04/30/87	6.90	04/28/87	6.40	-----	-----	-----	-----
POTASSIUM	PPB	100.00	06/19/87	7.20	06/25/87	6.80	06/25/87	6.60	04/28/87	6.00	04/28/87	6.00
RADIUM	PC/L	0.10	06/19/87	5350.00	04/30/87	6040.00	06/25/87	6370.00	06/25/87	6130.00	06/25/87	6000.00
SODIUM	PPB	100.00	04/15/87	18900.00	04/30/87	21800.00	04/28/87	21800.00	04/28/87	13500.00	04/28/87	12900.00
SULFATE	PPB	500.00	06/19/87	18600.00	06/25/87	22700.00	06/25/87	22700.00	06/25/87	17200.00	04/28/87	17200.00
TOC	PPB	200.00	04/15/87	28600.00	04/30/87	48300.00	06/25/87	47500.00	04/28/87	19600.00	04/28/87	19600.00
TRITIUM	PC/L	500.00	20000.00	06/19/87	682.00	04/15/87	750.00	06/25/87	289.00	04/28/87	890.00	06/25/87
U-CHEM	PC/L	0.50	04/15/87	2.97	06/31/87	2.71	05/31/87	1.40	NR	NR	NR	NR
VANADUM	PPB	0.73	04/15/87	14.00	04/30/87	5.99	04/28/87	7.00	04/28/87	1.40	04/28/87	7.00
ZINC	PPB	5.00	04/15/87	11.00	06/19/87	16.00	06/25/87	52.00	04/28/87	44.00	04/28/87	52.00

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - ANALYSIS NOT REQUESTED OR NOT AVAILABLE FOR COMPARISON.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR FURTHER INVESTIGATION.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	UNITS	DETECTION	WATER LIMIT	SAMPLE DATE	SAMPLE DATE	SAMPLE DATE	6-24-34B
1,1,1-T	PPB	10.00	(200.0)	05/20/87	52.00	05/20/87	43.00	06/20/87
ALKALIN	PPB	50.00	06/19/87	49.00	+ 06/18/87	41.00	06/18/87	56.00
AMMONIUM	PPB	50.00	06/19/87	22700.00	+ 06/18/87	20000.00	06/18/87	21100.00
CALCIUM	PPB	2.00	06/20/87	76600.00	06/20/87	66400.00	06/20/87	71500.00
CHLORID	PPB	500.00	06/19/87	68100.00	06/18/87	67100.00	06/18/87	65600.00
CONDFLD	UMHO	1.00	06/19/87	8830.00	06/20/87	8580.00	06/20/87	8760.00
FBARIUM	PPB	6.00	06/19/87	452.00	06/20/87	471.00	06/20/87	485.00
FCLACIU	PPB	50.00	06/19/87	70600.00	06/20/87	69400.00	06/20/87	69500.00
FIRON	PPB	50.00	06/19/87	83300.00	06/20/87	66700.00	06/20/87	66800.00
FLUDRID	PPB	500.00	06/20/87	1400.00	06/20/87	601.00	06/20/87	629.00
FMANGAN	PPB	5.00	06/20/87	15600.00	06/20/87	14900.00	06/20/87	15200.00
FPTASS	PPB	100.00	06/19/87	7270.00	06/20/87	7070.00	06/20/87	6910.00
FSODIUM	PPB	100.00	06/19/87	7650.00	06/18/87	7750.00	06/18/87	7660.00
FVANADI	PPB	5.00	06/19/87	21900.00	06/18/87	21600.00	06/18/87	21700.00
GALCIUM	PPB	100.00	06/20/87	22800.00	06/18/87	21400.00	06/18/87	23900.00
IIRON	PPB	50.00	06/19/87	14.00	06/20/87	15.00	06/20/87	15.00
LALPHA	PCl/L	2.00	06/19/87	15.00	06/18/87	2.32	06/18/87	2.38
MAGNES	PPB	0.00	06/20/87	{ 1.96 }	06/18/87	{ 1.56 }	06/18/87	{ 1.53 }
MANGESE	PPB	5.00	06/19/87	16500.00	06/18/87	14600.00	06/18/87	15300.00
NITRATE	PPB	500.00	06/20/87	21100.00	06/18/87	22400.00	06/18/87	23600.00
VALU	-	-	-	-	-	-	-	-
NR	-	-	-	-	-	-	-	-
WATER STANDARD	-	-	-	-	-	-	-	-
WATER STANDARD(s) IN PARENTHESES ARE PROPOSED ONLY	-	-	-	-	-	-	-	-
VALUES IN () ARE COUNTING ERRORS FOR RADIONUCLEIDES	-	-	-	-	-	-	-	-
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED	-	-	-	-	-	-	-	-
% - VALUE EXCEEDS SCRIBBLING LEVEL FOR FURTHER INVESTIGATION.	-	-	-	-	-	-	-	-
# - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.	-	-	-	-	-	-	-	-

TABLE A.5. (contd)

A.104

NAME	CONSTITUENT UNITS	DETECTION	LIMIT	WATER	SAMPLE	STANDARD	DATE	6-23-34	SAMPLE	6-24-34A	DATE	6-24-34B
NITRATE	PPB	500.00	45000.00	06/19/87	20100.00	06/18/87	22100.00	06/18/87	23400.00	06/18/87	23400.00	06/18/87
PHATE	PPB	0.10	45000.00	06/20/87	6.50	05/20/87	6.70	05/20/87	6.50	06/18/87	6.50	06/18/87
PHFIELD	PPB	500.00	45000.00	06/19/87	6.92	06/18/87	6.93	06/18/87	6.93	06/18/87	6.93	06/18/87
POSSUM	PPB	100.00	45000.00	06/19/87	7510.00	05/20/87	7570.00	05/20/87	7200.00	06/18/87	7200.00	06/18/87
SODIUM	PPB	100.00	45000.00	06/19/87	21800.00	06/18/87	23700.00	06/18/87	22400.00	06/18/87	22400.00	06/18/87
STRONIUM	PPB	300.00	45000.00	06/19/87	302.00	06/19/87	23700.00	06/19/87	21900.00	06/18/87	21900.00	06/18/87
SULFATE	PPB	500.00	45000.00	06/19/87	45900.00	05/20/87	46900.00	05/20/87	43200.00	05/20/87	43200.00	05/20/87
TOC	PPB	200.00	45000.00	06/19/87	49700.00	06/18/87	49200.00	06/18/87	47700.00	06/18/87	47700.00	06/18/87
TOXDL	PPB	20.00	10.00	(5.0)	06/19/87	10.00	#	06/19/87	6.80	06/18/87	6.80	06/18/87
VANDADUM	PPB	5.00	5.00		06/20/87	12.00		06/20/87	319.00	06/18/87	319.00	06/18/87
ZINC	PPB	5.00	5.00		06/20/87	17.00		06/20/87	17.00	06/18/87	16.00	06/18/87

TABLE A.5. (contd)

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NAME	CONSTITUENT	DETECTOR	WATER LIMIT	SAMPLE DATE	6-24-34C	SAMPLE DATE	6-25-34C
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1,1,1-T	PPB	10.00	(200.0)	05/20/87	24.00	NR	NR
ALKALIN	PPB	50.00		06/18/87	25.00	196000.00 +	06/19/87 132000.00 +
AMMONIUM	PPB	50.00		05/20/87	60.00	06/20/87	62.00
BARIUM	PPB	6.00		06/18/87	86.00	06/20/87	98.00
BETA	PCl/L	3.00		06/18/87	46.00	06/20/87	42.00
CADMIUM	PPB	2.00		05/20/87	2.00	06/18/87	1.76 }
CALCIUM	PPB	50.00		10.00	05/20/87	5.96 }	4.76 }
CHLORID	PPB	500.00		06/18/87	58400.00	06/20/87	44800.00
COLIFORM	MPN	2.20		1.00	06/18/87	8480.00	06/20/87
CONDIFLD	UMHO	1.00		05/20/87	505.00	06/20/87	2.20 *
FBARIUM	PPB	6.00		06/18/87	448.00	06/20/87	335.00
FLACLU	PPB	50.00		06/18/87	46.00	06/20/87	40.00
FLUORID	PPB	5.00		05/20/87	63600.00	06/20/87	41300.00
FMANGAN	PPB	5.00		06/18/87	14900.00	06/20/87	11200.00
FODIUM	PPB	100.00		06/18/87	7130.00	06/20/87	6350.00
FPTASS	PPB	100.00		05/20/87	6430.00	06/20/87	6030.00
FVANDI	PPB	5.00		06/18/87	22100.00	06/20/87	22200.00
FZINC	PPB	5.00		06/18/87	22700.00	06/20/87	22800.00
IRON	PPB	50.00		06/18/87	115.00	06/20/87	49.00
LALPHA	PCl/L	2.00		15.00	06/18/87	3.72	3.08
MAGNES	PPB	0.00		05/20/87	3.72	06/18/87	1.68 }
MANGANESE	PPB	5.00		06/18/87	15300.00	06/20/87	11400.00
NR				06/18/87	11100.00	06/20/87	11700.00
NR				06/18/87	11000.00	06/20/87	11500.00
NR				06/18/87	10900.00	06/20/87	11200.00
NR				06/18/87	10800.00	06/20/87	11700.00
NR				06/18/87	10700.00	06/20/87	11500.00
NR				06/18/87	10600.00	06/20/87	11200.00
NR				06/18/87	10500.00	06/20/87	11500.00
NR				06/18/87	10400.00	06/20/87	11500.00
NR				06/18/87	10300.00	06/20/87	11500.00
NR				06/18/87	10200.00	06/20/87	11500.00
NR				06/18/87	10100.00	06/20/87	11500.00
NR				06/18/87	10000.00	06/20/87	11500.00
NR				06/18/87	9900.00	06/20/87	11500.00
NR				06/18/87	9800.00	06/20/87	11500.00
NR				06/18/87	9700.00	06/20/87	11500.00
NR				06/18/87	9600.00	06/20/87	11500.00
NR				06/18/87	9500.00	06/20/87	11500.00
NR				06/18/87	9400.00	06/20/87	11500.00
NR				06/18/87	9300.00	06/20/87	11500.00
NR				06/18/87	9200.00	06/20/87	11500.00
NR				06/18/87	9100.00	06/20/87	11500.00
NR				06/18/87	9000.00	06/20/87	11500.00
NR				06/18/87	8900.00	06/20/87	11500.00
NR				06/18/87	8800.00	06/20/87	11500.00
NR				06/18/87	8700.00	06/20/87	11500.00
NR				06/18/87	8600.00	06/20/87	11500.00
NR				06/18/87	8500.00	06/20/87	11500.00
NR				06/18/87	8400.00	06/20/87	11500.00
NR				06/18/87	8300.00	06/20/87	11500.00
NR				06/18/87	8200.00	06/20/87	11500.00
NR				06/18/87	8100.00	06/20/87	11500.00
NR				06/18/87	8000.00	06/20/87	11500.00
NR				06/18/87	7900.00	06/20/87	11500.00
NR				06/18/87	7800.00	06/20/87	11500.00
NR				06/18/87	7700.00	06/20/87	11500.00
NR				06/18/87	7600.00	06/20/87	11500.00
NR				06/18/87	7500.00	06/20/87	11500.00
NR				06/18/87	7400.00	06/20/87	11500.00
NR				06/18/87	7300.00	06/20/87	11500.00
NR				06/18/87	7200.00	06/20/87	11500.00
NR				06/18/87	7100.00	06/20/87	11500.00
NR				06/18/87	7000.00	06/20/87	11500.00
NR				06/18/87	6900.00	06/20/87	11500.00
NR				06/18/87	6800.00	06/20/87	11500.00
NR				06/18/87	6700.00	06/20/87	11500.00
NR				06/18/87	6600.00	06/20/87	11500.00
NR				06/18/87	6500.00	06/20/87	11500.00
NR				06/18/87	6400.00	06/20/87	11500.00
NR				06/18/87	6300.00	06/20/87	11500.00
NR				06/18/87	6200.00	06/20/87	11500.00
NR				06/18/87	6100.00	06/20/87	11500.00
NR				06/18/87	6000.00	06/20/87	11500.00
NR				06/18/87	5900.00	06/20/87	11500.00
NR				06/18/87	5800.00	06/20/87	11500.00
NR				06/18/87	5700.00	06/20/87	11500.00
NR				06/18/87	5600.00	06/20/87	11500.00
NR				06/18/87	5500.00	06/20/87	11500.00
NR				06/18/87	5400.00	06/20/87	11500.00
NR				06/18/87	5300.00	06/20/87	11500.00
NR				06/18/87	5200.00	06/20/87	11500.00
NR				06/18/87	5100.00	06/20/87	11500.00
NR				06/18/87	5000.00	06/20/87	11500.00
NR				06/18/87	4900.00	06/20/87	11500.00
NR				06/18/87	4800.00	06/20/87	11500.00
NR				06/18/87	4700.00	06/20/87	11500.00
NR				06/18/87	4600.00	06/20/87	11500.00
NR				06/18/87	4500.00	06/20/87	11500.00
NR				06/18/87	4400.00	06/20/87	11500.00
NR				06/18/87	4300.00	06/20/87	11500.00
NR				06/18/87	4200.00	06/20/87	11500.00
NR				06/18/87	4100.00	06/20/87	11500.00
NR				06/18/87	4000.00	06/20/87	11500.00
NR				06/18/87	3900.00	06/20/87	11500.00
NR				06/18/87	3800.00	06/20/87	11500.00
NR				06/18/87	3700.00	06/20/87	11500.00
NR				06/18/87	3600.00	06/20/87	11500.00
NR				06/18/87	3500.00	06/20/87	11500.00
NR				06/18/87	3400.00	06/20/87	11500.00
NR				06/18/87	3300.00	06/20/87	11500.00
NR				06/18/87	3200.00	06/20/87	11500.00
NR				06/18/87	3100.00	06/20/87	11500.00
NR				06/18/87	3000.00	06/20/87	11500.00
NR				06/18/87	2900.00	06/20/87	11500.00
NR				06/18/87	2800.00	06/20/87	11500.00
NR				06/18/87	2700.00	06/20/87	11500.00
NR				06/18/87	2600.00	06/20/87	11500.00
NR				06/18/87	2500.00	06/20/87	11500.00
NR				06/18/87	2400.00	06/20/87	11500.00
NR				06/18/87	2300.00	06/20/87	11500.00
NR				06/18/87	2200.00	06/20/87	11500.00
NR				06/18/87	2100.00	06/20/87	11500.00
NR				06/18/87	2000.00	06/20/87	11500.00
NR				06/18/87	1900.00	06/20/87	11500.00
NR				06/18/87	1800.00	06/20/87	11500.00
NR				06/18/87	1700.00	06/20/87	11500.00
NR				06/18/87	1600.00	06/20/87	11500.00
NR				06/18/87	1500.00	06/20/87	11500.00
NR				06/18/87	1400.00	06/20/87	11500.00
NR				06/18/87	1300.00	06/20/87	11500.00
NR				06/18/87	1200.00	06/20/87	11500.00
NR				06/18/87	1100.00	06/20/87	11500.00
NR				06/18/87	1000.00	06/20/87	11500.00
NR				06/18/87	900.00	06/20/87	11500.00
NR				06/18/87	800.00	06/20/87	11500.00
NR				06/18/87	700.00	06/20/87	11500.00
NR				06/18/87	600.00	06/20/87	11500.00
NR				06/18/87	500.00	06/20/87	11500.00
NR				06/18/87	400.00	06/20/87	11500.00
NR				06/18/87	300.00	06/20/87	11500.00
NR				06/18/87	200.00	06/20/87	11500.00
NR				06/18/87	100.00	06/20/87	11500.00
NR				06/18/87	0.00	06/20/87	11500.00

TABLE A.5. (contd)

VALUER STANDBY

EXCEEDS PRIMARY DRINKING WATER STANDBY</div

A:106

NAME	CONSTITUENT	UNITS	DETECTION	WATER	STANDARD	SAMPLE	DATE	6-24-35	SAMPLE	DATE	6-25-34C
NICKEL	PPB	10.00	45000.00	05/20/87	24000.00	06/18/87	10.00	NR	NR		
P-NITRATE	PPB	500.00	23500.00	06/18/87	05/20/87	06/18/87	7.00	20700.00	06/19/87	25500.00	7.30
P-HFIELD	PPB	0.10	45000.00	05/20/87	21600.00	06/20/87	06/18/87	20700.00	06/19/87	25500.00	7.00
NITRATE	PPB	10.00	45000.00	05/20/87	24000.00	06/18/87	10.00	NR	NR		
N-ANILINE	PPB	5.00	8.00	06/18/87	-----	-----	-----	-----	-----	-----	6-25-34C
ZINC	PPB	5.00	45000.00	05/20/87	130.00	06/18/87	18.00	05/20/87	18.00	06/19/87	37.00
TOKXDL	PPB	20.00	06/18/87	15.00	05/20/87	18.00	05/20/87	21.00	06/19/87	26.00	23.00
VANADUM	PPB	5.00	06/18/87	15.00	05/20/87	18.00	05/20/87	21.00	06/19/87	26.00	23.00
SULFATE	PPB	500.00	06/18/87	23700.00	05/20/87	21200.00	06/18/87	22400.00	06/19/87	23100.00	21600.00
SODIUM	PPB	100.00	06/18/87	72200.00	06/18/87	68500.00	06/18/87	66000.00	06/19/87	6300.00	6110.00
POOTASUM	PPB	100.00	06/18/87	6790.00	05/20/87	6600.00	06/19/87	7.37	06/19/87	7.46	7.46
TOC	PPB	200.00	06/18/87	42900.00	05/20/87	46700.00	06/18/87	50100.00	06/19/87	45400.00	41500.00
ZINC	PPB	5.00	06/18/87	389.00	05/20/87	260.00	06/18/87	569.00	05/20/87	316.00	459.00

TABLE A.5. (contd)

NAME	CONSTITUENT	DETECTION UNITS	WATER STANDARD	SAMPLE DATE	6-25-33A	SAMPLE DATE	6-25-34A	SAMPLE DATE	6-25-34B
ARSENIC	PPB	5.00	50.00	06/27/87	6.00	06/26/87	(3.82)	(5.19)	-----
BARIUM	PPB	6.00	1000.00	05/27/87	15.00	05/26/87	10.90	28.70	32.00
BETA	PCl/L	3.00	50.00	05/27/87	5.00	05/26/87	05/26/87	34.00	34.30
CALCIUM	PPB	50.00	500.00	06/27/87	26700.00	06/26/87	6950.00	38900.00	(5.66)
CHLORIDE	PPB	50.00	50.00	06/27/87	6950.00	06/26/87	7550.00	05/26/87	8010.00
CHROMIUM	PPB	50.00	500.00	06/27/87	26700.00	06/26/87	38900.00	38700.00	(5.66)
COLIFORM	MPN	2.20	1.00	05/27/87	16.00	05/26/87	1.00	2.20	-----
CONDIFL	UMHO	10.00	(1300.0.)	06/27/87	316.00	05/26/87	387.00	05/26/87	381.00
COPPER	PPB	10.00	1.00	06/27/87	316.00	05/26/87	387.00	05/26/87	381.00
FARSINET	PPB	6.00	6.00	05/27/87	14.00	06/26/87	1.00	5.00	-----
FACLUIT	PPB	50.00	1000.00	06/27/87	32.00	06/26/87	36900.00	05/26/87	31.00
FIRON	PPB	50.00	50.00	06/27/87	27200.00	06/26/87	69.00	05/26/87	37700.00
FLUORIDE	PPB	500.00	1400.00	06/27/87	602.00	05/26/87	677.00	05/26/87	732.00
FLUORGAN	PPB	5.00	5.00	06/27/87	7510.00	05/26/87	10100.00	05/26/87	10600.00
FOTASS	PPB	100.00	100.00	06/27/87	6640.00	06/26/87	5640.00	05/26/87	22900.00
FSDODIUM	PPB	100.00	100.00	06/27/87	43200.00	06/26/87	22000.00	05/26/87	22900.00
IRON	PPB	5.00	5.00	06/27/87	13.00	05/26/87	27.00	05/26/87	23.00
LEADGEF	PPB	50.00	50.00	06/27/87	238.00	05/26/87	6.00	05/26/87	6.00
LALPHA	PCl/L	2.00	2.00	06/27/87	15.00	05/26/87	3.30	05/26/87	5.00
MANGANESE	PPB	0.00	0.00	06/27/87	{ 1.59 }	05/26/87	{ 3.93 }	05/26/87	{ 2.43 }
METHYCH	PPB	5.00	10.00	06/27/87	9.00	05/26/87	7260.00	05/26/87	10800.00
NICKEL	PPB	10.00	10.00	06/27/87	12.00	05/26/87	41860.00	05/26/87	220.00
NITRATE	PPB	10.00	45000.00	06/27/87	12.00	05/26/87	26700.00	05/26/87	27700.00
PHTIELD	PPB	500.00	100.00	06/27/87	42100.00	05/26/87	27500.00	05/26/87	41400.00
POTASUM	PPB	100.00	100.00	06/27/87	56000.00	05/26/87	42100.00	05/26/87	331.00
RADIUM	PPB	0.10	0.10	06/27/87	0.21	05/26/87	6200.00	05/26/87	6260.00
SULFAATE	PPB	500.00	500.00	06/27/87	23200.00	05/26/87	23200.00	05/26/87	27900.00
ZINC	PPB	5.00	5.00	06/27/87	10.00	05/26/87	7.00	05/26/87	5.00

TABLE A.5. (contd)

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON.

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLEIDES

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

NAME	CONSTITUENT	DETECTION	WATER	SAMPLE	SAMPLE DATE	DATE	SAMPLE	6-26-35A	
				6-26-33	6-26-34				
ALUMINUM	PBP	150.00	1000.00	05/26/87	33.00	05/26/87	29.00	05/27/87	522.00
ARSENIC	PBP	5.00	50.00	05/26/87	32.60	05/26/87	36.10	05/27/87	35.70
BARIUM	PBP	150.00	1000.00	05/26/87	(5.48)	(5.81)	(5.48)	(5.81)	(5.81)
CALCIUM	PBP	50.00	500.00	05/26/87	37300.00	05/26/87	36700.00	05/27/87	44500.00
CHLORID	PBP	500.00	6960.00	05/26/87	7160.00	05/26/87	36700.00	05/27/87	7870.00
CONDIFLD	UMHO	1.00	1.00	05/26/87	369.00	05/26/87	16.00	05/27/87	16.00 *
COLIFRD	PBP	500.00	6960.00	05/26/87	7160.00	05/26/87	36700.00	05/27/87	7870.00
FCACTIUM	PBP	6.00	1000.00	05/26/87	36.00	05/26/87	27.00	05/27/87	36500.00
FCDPER	PBP	10.00	(1300.0)					05/27/87	13.00
FIRON	PBP	50.00	1400.00	05/26/87	686.00	05/26/87	701.00	05/27/87	666.00
FLUDORTD	PBP	500.00	1400.00	05/26/87	9960.00	05/26/87	10200.00	05/27/87	10700.00
FMANGAN	PBP	5.00	05/26/87	6070.00	05/26/87	6050.00	05/27/87	6280.00	11.00
FOTASS	PBP	100.00	6070.00	05/26/87	22700.00	05/26/87	22700.00	05/27/87	23600.00
FZNIC	PBP	5.00	05/26/87	26.00	05/26/87	22.00	05/26/87	32.00	14.00
IRON	PBP	50.00	05/26/87	26.00	05/26/87	22.00	05/26/87	294.00	4610.00
LEADGF	PBP	5.00	05/26/87	26.00	05/26/87	22.00	05/26/87	32.00	14.00
LDAHLHA	PCl/L	2.00	50.00	05/26/87	2.18	05/26/87	2.40	05/27/87	4.49
MANGNESE	PBP	0.00	0.10	45000.00	05/26/87	27900.00	05/26/87	05/27/87	44.00
NITRATE	PBP	500.00	0.00	05/26/87	7.60	05/26/87	7.50	05/27/87	24900.00
PHFIELD	PBP	500.00	0.10	10400.00	05/26/87	10200.00	05/26/87	05/27/87	11000.00
POTASUM	PBP	100.00	05/26/87	6188.00	(1.19)	(1.19)	(1.19)	05/27/87	{ 1.87 }
SODIUM	PBP	100.00	05/26/87	23700.00	05/26/87	23200.00	05/26/87	05/27/87	23100.00
SULFATE	PBP	500.00	05/26/87	39100.00	05/26/87	39100.00	05/26/87	05/27/87	43100.00
VANANDUM	PBP	5.00	05/26/87	25.00	05/26/87	26.00	05/26/87	26.00	26.00

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 + - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 - - - - -

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCIDES

9 1 1 1 8 0 0 1 4 0 5

TABLE A.5. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	-----	SAMPLE DATE	-----	SAMPLE DATE	-----
ZINC	PPB	5.00		05/26/87	6.00	05/26/87	6.00	05/27/87	17.00

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* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-26-35C
BARIUM	PPB	6.00	1000.00	05/27/87	56.00
BETA	PCI/L	3.00	50.00	05/27/87	32.50
					{ 5.48}
CALCIUM	PPB	50.00		05/27/87	49700.00
CHLORID	PPB	500.00		05/27/87	9040.00
CHROMUM	PPB	10.00	50.00	05/27/87	10.00
COLIFRM	MPN	2.20	1.00	05/27/87	16.00 *
CONDFLD	UMHO	1.00		05/27/87	370.00
				05/27/87	370.00
				05/27/87	370.00
				05/27/87	378.00
FBARIUM	PPB	6.00	1000.00	05/27/87	56.00
FCALCIU	PPB	50.00		05/27/87	48500.00
FMAGNES	PPB	0.00		05/27/87	12800.00
FMANGAN	PPB	5.00		05/27/87	110.00
FPOTASS	PPB	100.00		05/27/87	6360.00
FSODIUM	PPB	100.00		05/27/87	21000.00
FVANADI	PPB	5.00		05/27/87	9.00
IRON	PPB	50.00		05/27/87	70.00
MAGNES	PPB	0.00		05/27/87	12900.00
MANGESE	PPB	5.00		05/27/87	120.00
NITRATE	PPB	500.00	45000.00	05/27/87	20500.00
PHFIELD		0.10		05/27/87	7.60
				05/27/87	7.50
				05/27/87	7.60
				05/27/87	7.60
POTASUM	PPB	100.00		05/27/87	6290.00
SODIUM	PPB	100.00		05/27/87	20600.00
SULFATE	PPB	500.00		05/27/87	70500.00
TC	PPB			05/27/87	28200.00 *
TOC	PPB	200.00		05/27/87	292.00
				05/27/87	315.00
				05/27/87	297.00
				05/27/87	412.00
VANADUM	PPB	5.00		05/27/87	13.00
ZINC	PPB	5.00		05/27/87	7.00

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- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

9 1 1 3 8 9 1 4 3 7

**TABLE A.6. Results for Site-Wide Radiological and Nitrate Monitoring
Wells Not Included in Table A.4 or A.5**

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	1-B4-2	SAMPLE DATE	1-B4-3	SAMPLE DATE	1-F5-4
HNITRAT	PPB	2500.00	45000.00	06/16/87	11400.00	06/16/87	11800.00		NR
NITRATE	PPB	500.00	45000.00		NR		NR	06/17/87	52500.00 *
TRITIUM	PCI/L	500.00	20000.00	06/16/87	3070.00 { 239.00}	06/16/87	11700.00 { 445.00}	05/17/87	17300.00 { 558.00}
U	PCI/L	0.50	600.00		NR		NR	05/17/87	4.02
					1-N-2		1-N-3		1-N-4
CO 60	PCI/L	22.50	100.00	06/29/87	94.30 { 21.60}	06/29/87	24.90 { 13.60}	06/29/87	218.00 *
NITRATE	PPB	500.00	45000.00	06/29/87	31000.00		NR	06/29/87	25600.00
SR 90	PCI/L	5.00	8.00	06/29/87	3680.00 * { 31.60}	06/29/87	1220.00 * { 17.80}	06/29/87	12.50 * { 1.86}
TRITIUM	PCI/L	500.00	20000.00	06/29/87	89900.00 * { 1150.00}	06/29/87	60300.00 * { 949.00}	06/29/87	109000.00 * { 1250.00}
					1-N-6		1-N-15		1-N-16
CO 60	PCI/L	22.50	100.00	06/28/87	26.70 { 15.10}	06/29/87	36.00 { 17.10}		
NITRATE	PPB	500.00	45000.00	06/28/87	29300.00	06/29/87	25700.00	06/28/87	851.00
SR 90	PCI/L	5.00	8.00	06/28/87	411.00 * { 22.50}				
TRITIUM	PCI/L	500.00	20000.00	06/28/87	58100.00 * { 930.00}	06/29/87	56500.00 * { 923.00}		

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	1-N-18	SAMPLE DATE	1-N-19	SAMPLE DATE	1-N-20
NITRATE SR 90	PPB PCI/L	500.00 5.00	45000.00 8.00	05/28/87 05/28/87	514.00 255.00 * { 18.10}	05/28/87 05/28/87	17500.00 129.00 * { 5.99}	05/28/87 05/28/87	14100.00 41.50 * { 3.53}
TRITIUM	PCI/L	500.00	20000.00	05/28/87	33100.00 * { 723.00}	05/28/87	8050.00 { 437.00}	05/28/87	3910.00 { 364.00}
					1-N-21		1-N-22		1-N-23
CO 60	PCI/L	22.50	100.00					05/28/87	23.80 { 11.50}
NITRATE	PPB	500.00	45000.00	05/28/87	13000.00	05/28/87	5200.00	05/28/87	26000.00
RU 103	PCI/L	20.00	50000.00	05/28/87	13000.00 NR		NR	05/28/87	26300.00 46.00 { 16.30}
TRITIUM	PCI/L	500.00	20000.00	05/28/87	2320.00 { 319.00} 05/28/87 2110.00 { 314.00}	05/28/87	1170.00 { 293.00} NR	05/28/87 05/28/87	6090.00 { 392.00} 5840.00 { 388.00}
					1-N-25		1-N-27		1-N-30
CO 60	PCI/L	22.50	100.00			05/17/87	176.00 * { 27.40}	06/01/87	190.00 * { 31.20}
NITRATE RU 103	PPB PCI/L	500.00 20.00	45000.00 50000.00	05/28/87	3110.00 NR	05/17/87 05/17/87	18800.00 65.30 { 16.60}	06/01/87 06/01/87	21800.00 67.50 { 18.40}
SB 125	PCI/L	48.00	50000.00		NR	05/17/87	241.00 { 48.20}	NR	
SR 90	PCI/L	5.00	8.00			05/17/87	93.50 * { 4.98}		
TRITIUM	PCI/L	500.00	20000.00			05/17/87	83300.00 * { 1100.00}	06/01/87	107000.00 * { 1240.00}

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	1-N-31	SAMPLE DATE	1-N-32	SAMPLE DATE	1-N-33
CO 60	PCI/L	22.50	100.00	05/17/87	{ 288.00 * 29.30} NR	05/17/87	{ 259.00 * 35.00} NR	06/01/87	{ 176.00 * 33.90}
NITRATE	PPB	500.00	45000.00	05/17/87	25500.00 NR	05/17/87	30300.00 NR	06/01/87	{ 32100.00 32200.00}
RU 103	PCI/L	20.00	50000.00	05/17/87	{ 116.00 16.20} NR	05/17/87	{ 89.10 16.00} NR	06/01/87	{ 54.60 20.70}
RU 106	PCI/L	172.50	30.00	05/17/87	{ 181.00 * 79.50}			06/01/87	{ 47.20 173.00}
SR 90	PCI/L	5.00	8.00	05/17/87	{ 14.90 * 2.13}			06/01/87	{ 86.30 * NR}
TRITIUM	PCI/L	500.00	20000.00	05/17/87	{ 57100.00 * 925.00} NR	05/17/87	{ 87700.00 * 1130.00} NR	06/01/87	{ 89200.00 * 1140.00}
								06/01/87	{ 84000.00 * 1100.00}

				1-N-36		1-N-37		1-N-39
A	CO 60	PCI/L	22.50	100.00	05/17/87	{ 205.00 * 29.60}	05/17/87	{ 200.00 * 32.00}
113	NITRATE	PPB	500.00	45000.00	05/17/87	49300.00 *	05/17/87	{ 199.00 * 30.70}
	RU 103	PCI/L	20.00	50000.00	05/17/87	{ 86.70 16.80}	05/17/87	{ 46200.00 49.50}
	RU 106	PCI/L	172.50	30.00	05/17/87	{ 182.00 * 97.20}	05/17/87	{ 12.70}
	SB 125	PCI/L	48.00	50000.00	05/17/87	{ 171.00 34.40}	NR	05/17/87
	SR 90	PCI/L	5.00	8.00	05/17/87	{ 113.00 * 5.52}	05/17/87	{ 119.00 38.20}
	TRITIUM	PCI/L	500.00	20000.00	05/17/87	{ 88600.00 * 1140.00}	05/17/87	{ NR 128000.00 * 1350.00}

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	1-N-45	SAMPLE DATE	1-N-49	SAMPLE DATE	1-N-50
CO 60	PCI/L	22.50	100.00	05/29/87	138.00 * { 25.90}		NR		NR
NITRATE RU 103	PPB PCI/L	500.00 20.00	45000.00 50000.00	05/29/87 05/29/87	80700.00 * { 62.00 13.20}	05/17/87	43000.00 NR	05/17/87	28900.00 NR
SB 125	PCI/L	48.00	50000.00	05/29/87	197.00 { 38.40}		NR		NR
SR 90	PCI/L	5.00	8.00	05/29/87	2870.00 * { 85.70}				
TRITIUM	PCI/L	500.00	20000.00	05/29/87	84200.00 * { 1110.00}	05/17/87	197000.00 * { 1670.00}	05/17/87	81100.00 * { 1090.00}
					1-N-51		1-N-52		2-E13-8
BETA	PCI/L	3.00	50.00		NR		NR	05/22/87	
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	05/17/87 05/17/87	24000.00 59400.00 * { 942.00}	05/06/87 05/06/87	21300.00 120000.00 * { 1310.00}		6.93 { 2.12} NR NR

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E13-19	SAMPLE DATE	2-E16-2	SAMPLE DATE	2-E17-2
BETA	PCI/L	3.00	50.00	05/22/87	{ 90.40 % 8.80} NR	04/12/87 05/17/87 06/09/87	{ 2.24} 14.90 { 2.74} 18.10 { 2.97}	05/10/87 06/08/87	{ 446.00 % 21.80} 124.00 % { 11.30} NR
LOALPHA	PCI/L	2.00	15.00		NR NR	05/17/87	{ 2.27 0.86}	05/10/87 06/08/87	{ 7.71 1.13} 6.98 { 1.13}
NITRATE	PPB	500.00	45000.00		NR NR NR	04/12/87 05/17/87 06/09/87	3930.00 1360.00 3000.00	05/10/87 06/08/87	175000.00 * 129000.00 *
TRITIUM	PCI/L	500.00	20000.00		NR NR NR	04/12/87 05/17/87 06/09/87	5490.00 { 390.00} 4000.00 { 354.00} 2880.00 { 272.00}	05/10/87 06/08/87	91400.00 * { 2490.00} 43400.00 * { 1990.00} NR

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- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E17-8	SAMPLE DATE	2-E17-12	SAMPLE DATE	2-E17-13
BETA	PCI/L	3.00	50.00	04/12/87	14.10	04/02/87	14.80	04/02/87	11.80
				05/10/87	{ 2.89}	{ 2.84}	{ 2.84}	05/10/87	{ 2.80}
				06/08/87	{ 12.40}	18.70	13.60	06/08/87	{ 13.60}
					{ 2.80}	{ 3.14}	{ 2.75}		{ 2.75}
LOALPHA	PCI/L	2.00	15.00		20.20	17.50	25.10	06/08/87	{ 25.10}
					{ 3.47}	{ 3.01}	{ 3.01}		{ 3.60}
					NR	4.21	7.68	04/02/87	{ 7.68}
					NR	4.18	6.60	05/10/87	{ 6.60}
NITRATE	PPB	500.00	45000.00	04/12/87	327000.00 *	71600.00 *	138000.00 *	04/02/87	138000.00 *
				05/10/87	218000.00 *	71700.00 *	124000.00 *	05/10/87	124000.00 *
				06/08/87	67000.00 *	117000.00 *	96500.00 *	06/08/87	96500.00 *
					{21700.00}	1230000.00 *	2960000.00 *	04/02/87	{12400.00}
TRITIUM	PCI/L	500.00	20000.00	04/12/87	6850000.00 *	{ 8050.00}	{ 10500.00}	05/10/87	{14000.00}
				05/10/87	6670000.00 *	2010000.00 *	3630000.00 *	05/10/87	{14000.00}
				06/08/87	{19100.00}	{10500.00}	{14000.00}	06/08/87	{14000.00}
					7470000.00 *	3690000.00 *	3010000.00 *	06/08/87	{14500.00}
U-CHEM	UG/L	0.73			NR	5.01	8.04	04/02/87	8.04
					NR	4.47	6.75	05/10/87	6.75
					NR	4.38	4.91	06/08/87	4.91

A.116

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- ** - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- XX - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E23-2	SAMPLE DATE	2-E24-1	SAMPLE DATE	2-E24-2
BETA	PCI/L	3.00	50.00	06/29/87	{ 7.77 2.16} NR	04/01/87 04/16/87 05/27/87 06/17/87	{ 35.30 4.47} 39.80 41.30 62.30 % 5.99}	06/08/87	{ 15.20 2.92} NR
H NITRAT LOALPHA	PPB PCI/L	2500.00 2.00	45000.00 15.00		NR	06/17/87	555000.00 *	06/08/87	NR 5.18 0.98}
NITRATE	PPB	500.00	45000.00		NR NR NR	04/01/87 04/16/87 05/27/87	419000.00 * 403000.00 * 363000.00 *	06/08/87	176000.00 *
SR 90	PCI/L	5.00	8.00		NR	04/01/87	14.30 * { 2.13}		
TRITIUM	PCI/L	500.00	20000.00	06/29/87	{ 33500.00 * { 1830.00 } NR	04/01/87 04/16/87 05/27/87 06/17/87	8760000.00 * { 21500.00 } 9820000.00 * { 26300.00 } 8780000.00 * { 22000.00 } 11300000.00 * { 28300.00 }	06/08/87	3930000.00 * { 16500.00 } NR

A.117

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E24-4	SAMPLE DATE	2-E24-11	SAMPLE DATE	2-E24-13
BETA	PCI/L	3.00	50.00	04/02/87	6.74 { 1.97} 04/12/87 5.57 05/10/87 1.81 4.92 { 1.75}	04/12/87	14.40 { 3.02} 05/10/87 11.60 06/08/87 2.78 16.10 { 3.17}	04/02/87	8.03 { 2.12} 06/29/87 6.89 { 2.01} NR
HNITRAT NITRATE	PPB	2500.00	45000.00	04/12/87	2770.00	04/12/87	470000.00 *	06/29/87	4210.00
	PPB	500.00	45000.00	05/10/87	2790.00		NR	04/02/87	2950.00
				06/08/87	4280.00		NR		NR
TRITIUM	PCI/L	500.00	20000.00	04/02/87	17100.00 { 478.00}	04/12/87	13900000.00 * { 31400.00}	04/02/87	22200.00 * { 621.00}
				04/12/87	13300.00		NR		NR
				05/10/87	{ 429.00} 11600.00		NR		NR
				06/08/87	{ 417.00} 11700.00 { 456.00}		NR		NR
A-118									
					2-E25-3		2-E25-6		2-E25-9
BETA	PCI/L	3.00	50.00	06/29/87	3.98 { 1.65} NR	05/17/87	3.08 { 1.50} 06/09/87 5.21	04/12/87	4.17 { 1.61} 05/17/87 4.27
NITRATE	PPB	500.00	45000.00		NR	04/12/87	1680.00	04/12/87	1420.00
TRITIUM	PCI/L	500.00	20000.00		NR	04/12/87	31500.00 *	04/12/87	3110.00
					NR	05/17/87	{ 1680.00} 6840.00 { 354.00}	05/17/87	{ 345.00} 3580.00 { 345.00}
					NR	06/09/87	{ 8590.00} { 402.00}		NR

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E25-11	SAMPLE DATE	2-E25-13	SAMPLE DATE	2-E25-17
BETA	PCI/L	3.00	50.00	04/12/87	9.24	04/02/87	11.16	04/12/87	9.33
				05/08/87	{ 2.22}	{ 2.98}	{ 10.80}	05/08/87	{ 2.19}
				06/09/87	{ 9.79}	06/29/87	{ 3.06}	06/09/87	10.90
					{ 2.29}		NR	06/09/87	{ 2.38}
HNITRAT NITRATE	PPB	2500.00	45000.00	04/12/87	28000.00	06/29/87	128000.00 *	04/12/87	26500.00
				05/08/87	40600.00	04/02/87	390000.00 *	05/08/87	18300.00
				06/09/87	55000.00 *		NR	06/09/87	17100.00
							NR	04/12/87	502000.00 *
TRITIUM	PCI/L	500.00	20000.00	04/12/87	325000.00 *		NR	05/08/87	{ 5290.00}
				05/08/87	{ 4940.00}		NR	06/09/87	{ 4630.00}
				06/09/87	{ 40400.00} *		NR	06/09/87	374000.00 *
					{ 2080.00}		NR	06/09/87	411000.00 *
A.119					{ 602000.00} *		NR	06/09/87	{ 5520.00}
					{ 2930.00}				
						2-E25-19		2-E25-23	
								2-E25-24	
BETA	PCI/L	3.00	50.00	04/12/87	119.00 %	06/09/87	15.40	06/09/87	22.20
				05/08/87	{ 7.63}	{ 2.73}	NR	06/09/87	{ 3.29}
				06/09/87	54.90 %		NR	NR	NR
					{ 5.28}		NR		
NITRATE	PPB	500.00	45000.00	04/12/87	241000.00 *	06/09/87	4030.00	06/09/87	4060.00
				05/08/87	158000.00 *		NR	06/09/87	NR
				06/09/87	205000.00 *		NR	06/09/87	NR
					{ 18600.00}		NR	06/09/87	{ 1020.00}
TRITIUM	PCI/L	500.00	20000.00	04/12/87	6560000.00 *	06/09/87	576.00	06/09/87	{ 222.00}
				05/08/87	5280000.00 *	{ 207.00}	NR	06/09/87	NR
				06/09/87	{ 16900.00}		NR	NR	
					{ 19200.00}				

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
% - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
+ - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E26-2	SAMPLE DATE	2-E26-4	SAMPLE DATE	2-E26-6
BETA	PCI/L	3.00	50.00	06/29/87	{ 5.26 1.82}	06/29/87	{ 5.33 1.84}	04/01/87	{ 5.26 1.71}
HNITRAT	PPB	2500.00	45000.00	06/29/87	3400.00	06/29/87	3710.00		
NITRATE	PPB	500.00	45000.00		NR		NR	04/01/87	687.00
TRITIUM	PCI/L	500.00	20000.00	06/29/87	{ 2340.00 221.00}	06/29/87	{ 53800.00 * 2190.00}	04/01/87	{ 617.00 263.00}
					NR		NR	06/16/87	{ 1110.00 192.00}
					2-E26-8		2-E27-7		2-E28-9
BETA	PCI/L	3.00	50.00		NR	04/01/87	{ 6.49 1.94}	06/17/87	{ 11.60 2.65}
					NR	06/16/87	{ 7.53 2.09}		NR
HNITRAT	PPB	2500.00	45000.00		NR	06/16/87	3240.00		
LOALPHA	PCI/L	2.00	15.00		NR			06/17/87	{ NR 8.92 1.22}
NITRATE	PPB	500.00	45000.00		NR	04/01/87	10700.00		
U-CHEM	UG/L	0.73					NR	06/17/87	{ NR 6.35}

A.120

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- ** - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E28-12	SAMPLE DATE	2-E28-16	SAMPLE DATE	2-E28-18
BETA	PCI/L	3.00	50.00	04/12/87	{ 13.10 2.76} 05/17/87 { 16.70 3.20} 06/10/87 { 17.50 3.31}	06/16/87	{ 11.00 2.57} NR	05/17/87	{ 20.50 3.36} 06/10/87 { 23.40 3.60} NR
LOALPHA	PCI/L	2.00	15.00		NR	06/16/87	{ 8.24 1.22} NR	05/17/87	{ 67.90 % 3.33} 06/10/87 { 94.10 % 4.06}
NITRATE	PPB	500.00	45000.00		NR		NR	05/17/87	{ 55500.00 * 62600.00 *}
TRITIUM	PCI/L	500.00	20000.00	04/12/87	390000.00 *		NR	05/17/87	{ 6430.00 347.00}
				05/17/87	{ 4630.00} 136000.00 *		NR	06/10/87	{ 6920.00 366.00}
				06/10/87	{ 2940.00} 163000.00 *		NR		NR
U-CHEM	UG/L	0.73			NR	06/16/87	7.78	05/17/87	101.00
					NR		NR	06/10/87	98.10

				2-E28-23		2-E28-24		2-E28-25	
BETA	PCI/L	3.00	50.00	06/17/87	12000.00 % { 436.00}	06/17/87	{ 381.00 % 14.40}	06/17/87	{ 5750.00 % 50.50}
CS-137	PCI/L	20.00	200.00	06/17/87	2490.00 *			06/17/87	{ 39.30
HNITRAT	PPB	2500.00	45000.00	06/17/87	{ 322.00}			06/17/87	{ 13.10}
LOALPHA	PCI/L	2.00	15.00	06/17/87	10400.00 57.20 % { 7.37}		NR	06/17/87	NR 7.99
SR 90	PCI/L	5.00	8.00	06/17/87	{ 8910.00 * 138.00}	06/17/87	{ 192.00 * 7.58}	06/17/87	{ 1.22} 2730.00 *
U-CHEM	UG/L	0.73		06/17/87	49.70			06/17/87	{ 45.70} 4.69

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 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
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 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
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 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-E33-7	SAMPLE DATE	2-E33-9	SAMPLE DATE	2-E33-12
BETA	PCI/L	3.00	50.00	05/19/87	{ 810.00 % 28.40} NR	04/02/87 06/29/87	{ 226.00 % 9.74} 219.00 % { 9.81}	NR	NR
CO 60	PCI/L	22.50	100.00	05/19/87	{ 74.80 20.70}	NR	06/29/87	10200.00	NR
HNITRAT	PPB	2500.00	45000.00		NR	04/02/87	1660.00		
NITRATE	PPB	500.00	45000.00		NR	04/02/87	1620.00		
TRITIUM	PCI/L	500.00	20000.00		NR	06/29/87	{ 286.00} 2060.00 { 215.00}	NR	
2-E33-14									
BETA	PCI/L	3.00	50.00		NR NR NR	04/01/87 04/12/87 NR	{ 13.60 2.66} 9.59 { 2.26}	04/12/87 05/10/87 06/09/87	{ 9.60 2.44} 12.10 { 2.67} 9.08 { 2.45}
L0ALPHA	PCI/L	2.00	15.00		NR NR		NR NR	04/12/87 06/09/87	{ 2.41 0.68} 2.23 { 0.68}
NITRATE	PPB	500.00	45000.00	04/01/87	19500.00 NR	04/01/87 04/12/87	2740.00 9730.00	NR NR	NR NR
TRITIUM	PCI/L	500.00	20000.00		NR NR		NR NR	04/12/87 06/09/87	{ 635.00 292.00} 998.00 { 291.00} 535.00 { 208.00}
U	PCI/L	0.50	600.00	04/01/87	1.30	04/01/87	1.08		NR

A.12

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-W11-23	SAMPLE DATE	2-W11-24	SAMPLE DATE	2-W14-10
BETA	PCI/L	3.00	50.00	05/17/87	{ 32.40 4.55} NR	05/17/87	{ 8.63 2.60} NR	04/19/87	{ 6.75 2.11}
					NR		NR	05/10/87	{ 6.94 2.23}
								06/09/87	{ 6.82 2.20}
LOALPHA	PCI/L	2.00	15.00	06/17/87	{ 3.44 0.79} NR		NR	04/19/87	{ 3.90 0.85}
					NR		NR	05/10/87	{ 5.11 0.97}
							NR	06/09/87	{ 4.77 0.94}
NITRATE	PPB	500.00	45000.00	06/17/87	451000.00 *	06/17/87	221000.00 *	04/19/87	83000.00 *
					NR		NR	05/10/87	99800.00 *
TRITIUM	PCI/L	500.00	20000.00		NR		NR	06/09/87	99100.00 *
							NR	04/19/87	1670.00
					NR		NR	05/10/87	{ 314.00 1840.00}
							NR	06/09/87	{ 310.00 1620.00}
					NR				{ 239.00}
A.123	BETA	PCI/L	3.00	50.00	06/29/87	2-W10-1	2-W11-11	05/17/87	2-W11-18
						{ 33.80 4.55}		{ 43.40 4.90}	{ 47.60 5.12}
						2-W15-6		2-W18-5	2-W18-9
HNITRAT	PPB	2500.00	45000.00	05/17/87	{ 5.12 1.84}	06/15/87	{ 3.94 1.67}	06/29/87	{ 3.97 1.62}
NITRATE	PPB	500.00	45000.00	05/17/87	NR		NR	06/29/87	6900.00
					11300.00		NR		NR

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
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 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-W18-15	SAMPLE DATE	2-W18-17	SAMPLE DATE	2-W18-18	
BETA	PCI/L	3.00	50.00	04/19/87	{ 16.40 2.78} 05/15/87 { 12.00 2.45} 06/15/87 { 20.30 3.13}	06/29/87	{ 4.72 1.61} NR	05/15/87	{ 4.39 1.64} NR	
HNITRAT LOALPHA	PPB PCI/L	2500.00 2.00	45000.00 15.00	06/15/87 04/19/87 05/15/87 06/15/87	{ 2780.00 49.60 % 2.98} { 51.80 % 2.91} { 52.60 % 3.03}		NR	06/15/87	3010.00	
NITRATE	PPB	500.00	45000.00	04/19/87 05/15/87 04/19/87 05/15/87 06/15/87	{ 967.00 541.00 62.10 70.70 70.10		NR	05/15/87	772.00	
U-CHEM	UG/L	0.73					NR	NR	NR	
2-W18-20										
2-W19-2										
2-W19-12										
A-124	BETA	PCI/L	3.00	50.00	06/29/87	{ 3.73 1.58} 3170.00	05/17/87	{ 69.80 % 6.47} NR	05/17/87	{ 13.60 2.66} NR
	HNITRAT LOALPHA	PPB PCI/L	2500.00 2.00	45000.00 15.00	06/29/87		05/17/87	{ 20.70 % 1.93}	05/17/87	{ 4.27 0.89}
	NITRATE SR 90	PPB PCI/L	500.00 5.00	45000.00 8.00		NR	05/17/87 05/17/87	{ 567000.00 * 15.00 * 2.04}	05/17/87	{ 3170.00}
	TC-99	PCI/L	15.00	100000.00		NR	05/17/87	{ 289.00 3.06}		NR
	TRITIUM	PCI/L	500.00	20000.00			05/17/87	{ 129000.00 * 2870.00}		
	U-CHEM	UG/L	0.73			NR	05/17/87	{ 31.00}	05/17/87	6.86

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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-W19-17	SAMPLE DATE	2-W19-18	SAMPLE DATE	2-W19-19
BETA	PCI/L	3.00	50.00	05/10/87	83.20 % { 11.40}	06/09/87	7810.00 % { 563.00}	04/19/87	198.00 % { 11.20}
				06/10/87	60.30 % { 11.10}		NR	05/10/87	180.00 % { 11.00}
					NR		NR	06/09/87	278.00 % { 13.80}
								04/19/87	357.00 % { 7.63}
LOALPHA	PCI/L	2.00	15.00	05/10/87	17.70 % { 5.01}	06/09/87	4730.00 % { 293.00}	05/10/87	392.00 % { 8.27}
				06/10/87	26.10 % { 6.15}		NR	06/09/87	358.00 % { 7.90}
					NR		NR	04/19/87	1120000.00 *
								05/10/87	1460000.00 *
NITRATE	PPB	500.00	45000.00	05/10/87	10500.00	06/09/87	253000.00 *	08/09/87	82800.00 *
				06/10/87	11600.00		NR	04/19/87	1250.00
					NR		NR	05/10/87	{ 305.00}
					NR		NR	06/09/87	1650.00
TRITIUM	PCI/L	500.00	20000.00		NR		NR	04/19/87	{ 305.00}
					NR		NR	05/10/87	1470.00
					NR		NR	06/09/87	{ 235.00}
								04/19/87	415.00
U-CHEM	UG/L	0.73		05/10/87	68.80	06/09/87	6680.00	05/10/87	524.00
				06/10/87	41.00		NR	06/09/87	534.00
					NR				

A-125

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-W19-20	SAMPLE DATE	2-W19-21	SAMPLE DATE	2-W19-23
BETA	PCI/L	3.00	50.00	04/19/87	441.00 % { 23.80}	04/19/87	13.20 { 2.52}	05/19/87	127.00 % { 8.76}
				05/10/87	493.00 % { 25.20}		NR	06/09/87	85.70 % { 7.19}
				06/09/87	511.00 % { 25.40}		NR		NR
					190.00 % { 9.20}	04/19/87	18.60 % { 1.68}	05/19/87	132.00 % { 4.73}
LOALPHA	PCI/L	2.00	15.00	04/19/87	154.00 % { 8.60}		NR	06/09/87	126.00 % { 4.69}
				05/10/87	259.00 % { 11.40}		NR		NR
				06/09/87	1000000.00 *	04/19/87	1260.00	05/19/87	1050000.00 *
					1060000.00 *		NR	06/09/87	575000.00 *
NITRATE	PPB	500.00	45000.00	04/19/87	101000.00 *		NR		NR
				05/10/87	1580.00		NR		
				06/09/87	{ 263.00}		NR	05/19/87	1230.00
					1600.00			06/09/87	{ 296.00}
TRITIUM	PCI/L	500.00	20000.00	05/10/87	{ 249.00}		NR		1030.00
				06/09/87				06/09/87	{ 224.00}
					NR	04/19/87	8.47	06/09/87	70.80
							{ 0.26}		{ 3.18}
A-126	U 234	0.10	500.00		NR	04/19/87	0.40	06/09/87	2.88
							{ 0.06}		{ 0.64}
					NR	04/19/87	8.53	06/09/87	73.10
							{ 0.28}		{ 3.23}
U 235	PCI/L	0.10	600.00		NR	04/19/87	20.30	05/19/87	230.00
							NR	06/09/87	204.00
					NR				NR
U 238	PCI/L	0.10	600.00		NR	04/19/87			
U-CHEM	UG/L	0.73		04/19/87	691.00	04/19/87			
				05/10/87	578.00				
				06/09/87	285.00				

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-W19-24	SAMPLE DATE	2-W19-25	SAMPLE DATE	2-W19-26
BETA	PCI/L	3.00	50.00	05/15/87 06/09/87	{ 626.00 % { 20.50} 648.00 % { 28.90}	05/15/87 06/09/87	{ 648.00 % { 19.70} 637.00 % { 19.30}	05/15/87 06/10/87	{ 88.70 % { 7.22} 95.00 % { 7.54}
LOALPHA	PCI/L	2.00	15.00	05/15/87 06/09/87	{ 536.00 % { 9.67} 548.00 % { 9.90}	05/15/87 06/09/87	{ 293.00 % { 7.24} 273.00 % { 6.99}	05/15/87 06/10/87	{ 128.00 % { 4.79} 107.00 % { 4.32}
NITRATE	PPB	500.00	45000.00	05/15/87 06/09/87	{ 1270000.00 * 77700.00 *	05/15/87 06/09/87	{ 728000.00 * 149000.00 *	05/15/87 06/10/87	{ 624000.00 * 682000.00 *
TC-99	PCI/L	15.00	100000.00	05/15/87	{ 13000.00	05/15/87	{ 16300.00		NR
TRITIUM	PCI/L	500.00	20000.00	05/15/87 06/09/87	{ 1880.00 { 310.00} 1850.00 { 246.00}	05/15/87 06/09/87	{ 1530.00 { 302.00} 1470.00 { 237.00}	05/15/87 06/10/87	{ 1300.00 { 297.00} 1330.00 { 231.00}
U 234	PCI/L	0.10	500.00	05/15/87 06/09/87	{ 230.00 { 5.87} 248.00 { 5.99}	05/15/87 06/09/87	{ 131.00 { 3.27} 134.00 { 4.75}	05/15/87 06/10/87	{ 61.10 { 2.12} 69.20 { 3.39}
U 235	PCI/L	0.10	600.00	05/15/87 06/09/87	{ 13.40 { 1.42} 10.10 { 1.22}	05/15/87 06/09/87	{ 8.87 { 0.74} 8.90 { 1.23}	05/15/87 06/10/87	{ 2.10 { 0.40} 3.82 { 0.79}
U 238	PCI/L	0.10	600.00	05/15/87 06/09/87	{ 268.00 { 6.32} 258.00 { 6.09}	05/15/87 06/09/87	{ 148.00 { 3.48} 133.00 { 4.73}	05/15/87 06/10/87	{ 61.60 { 2.13} 69.50 { 3.39}
U-CHEM	UG/L	0.73		05/15/87 06/09/87	{ 655.00 737.00	05/15/87 06/09/87	{ 223.00 344.00	05/15/87 06/10/87	{ 124.00 145.00

A.127

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- ** - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- xx - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	2-W22-10	SAMPLE DATE	2-W22-18	SAMPLE DATE	2-W22-21
BETA	PCI/L	3.00	50.00	06/29/87	{ 85.90 % 6.05}	06/29/87	{ 48.80 4.69}	05/17/87	{ 180.00 % 8.76}
LOALPHA	PCI/L	2.00	15.00			06/29/87	{ 3.36 0.79}	05/17/87	{ 14.50 1.57}
NITRATE SR 90	PPB	500.00	45000.00		NR	06/29/87	{ NR 12.00 *	05/17/87	{ 14000.00 NR}
U-CHEM	UG/L	0.73	5.00	06/29/87	{ 10.60 * 3.34}	06/29/87	{ 2.18}	05/17/87	19.60
					NR		NR		
					2-W23-9		2-W26-3		2-W26-6
BETA	PCI/L	3.00	50.00	04/19/87	{ 11.50 2.75}	06/15/87	{ 4.34 1.71}	06/16/87	{ 4.75 1.78}
				05/10/87	{ 11.30 2.71}		NR		NR
				06/09/87	{ 14.70 3.10}		NR		NR
HNITRAT LOALPHA	PPB	2500.00	45000.00	04/19/87	NR	06/15/87	2880.00	06/16/87	4300.00
	PCI/L	2.00	15.00		{ 24.30 % 2.06}				
				05/10/87	{ 33.00 % 2.44}		NR		NR
				06/09/87	{ 26.80 % 2.14}		NR		NR
TRITIUM	PCI/L	500.00	20000.00	04/19/87	1450000.00 * { 18000.00}				
				05/10/87	1530000.00 * { 9140.00}		NR		NR
				06/09/87	1550000.00 * { 10400.00}		NR		NR
U-CHEM	UG/L	0.73		04/19/87	29.60	06/15/87	1.28		NR
				05/10/87	54.60		NR		NR

A-128

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
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 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

9 | B | S | S | Y | 3 | U |
TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	3-2-2	SAMPLE DATE	3-2-3	SAMPLE DATE	3-3-1
NITRATE	PPB	500.00	45000.00	04/02/87	6870.00	04/02/87	19100.00	04/02/87	22300.00
TRITIUM	PCI/L	500.00	20000.00	04/02/87	588.00	04/02/87	1260.00	04/02/87	1550.00
U	PCI/L	0.50	600.00	04/02/87	{ 291.00} 22.10	04/02/87	{ 308.00} 6.48	04/02/87	{ 314.00} 6.91
					3-3-2		3-3-3		3-3-6
NITRATE	PPB	500.00	45000.00	04/02/87	0.96	04/07/87	9220.00	04/02/87	16000.00
U	PCI/L	0.50	600.00	04/02/87		04/07/87	7.72	04/02/87	12.60
					3-3-9		3-3-11		3-3-12
NITRATE	PPB	500.00	45000.00	04/07/87	25300.00	04/07/87	15100.00	05/07/87	12700.00
SR 90	PCI/L	5.00	8.00			04/07/87	6.92		
TRITIUM	PCI/L	500.00	20000.00	04/07/87	{ 1420.00 305.00}	04/07/87	{ 2210.00 323.00}	05/07/87	2050.00
U	PCI/L	0.50	600.00	04/07/87	10.20	04/07/87	20.50	05/07/87	{ 320.00} 41.00
					3-4-9		3-4-10		3-5-1
NITRATE	PPB	500.00	45000.00	04/07/87	22900.00	05/07/87	16400.00	04/07/87	45700.00 *
TRITIUM	PCI/L	500.00	20000.00	04/07/87	2320.00	05/07/87	1420.00		
U	PCI/L	0.50	600.00	04/07/87	{ 326.00} 25.80	05/07/87	{ 307.00} 17.60	04/07/87	3.46

A.129

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
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WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	3-6-1	SAMPLE DATE	3-8-1	SAMPLE DATE	3-8-3
NITRATE	PPB	500.00	45000.00	04/02/87	27900.00	04/02/87	20100.00	04/02/87	11800.00
U	PCI/L	0.50	600.00	04/02/87	28100.00	04/02/87	NR	04/02/87	11700.00
				04/02/87	5.63	04/02/87	3.37	04/02/87	2.70
				04/02/87	5.73	NR		04/02/87	3.92
					3-8-4		4-S0-7		4-S0-8
NITRATE	PPB	500.00	45000.00	05/06/87	26500.00	05/15/87	NR	05/22/87	NR
TRITIUM	PCI/L	500.00	20000.00				{ 39000.00 * } { 774.00 }	05/22/87	{ 50600.00 * } { 876.00 }
U	PCI/L	0.50	600.00	05/06/87	2.29	NR			NR
					4-S1-7B		4-S1-7C		4-S1-8A
BETA	PCI/L	3.00	50.00		NR	04/07/87	25.90	04/07/87	24.70
					NR	04/07/87	{ 3.81 } 23.00		{ 3.56 } NR
A.130	NITRATE	PPB	500.00	45000.00		04/07/87	27000.00	04/07/87	27700.00
	TRITIUM	PCI/L	500.00	20000.00	05/07/87	NR	04/07/87	27100.00	NR
					{ 54900.00 * } { 795.00 }	04/07/87	81000.00 * { 947.00 }	04/07/87	{ 92000.00 * } { 1160.00 }
					NR	04/07/87	76800.00 * { 915.00 }		NR
					4-S1-8B		4-S1-8C		6-1-18
BETA	PCI/L	3.00	50.00	04/07/87	24.80		NR		NR
					{ 3.73 }				
NITRATE	PPB	500.00	45000.00	04/07/87	26400.00		NR	05/31/87	19400.00
TRITIUM	PCI/L	500.00	20000.00	04/07/87	86800.00 * { 977.00 }	05/22/87	2740.00 { 327.00 }	05/31/87	{ 52400.00 * } { 895.00 }

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.

- VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.

X - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.

+ - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON

NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED

VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES

WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-2-7	SAMPLE DATE	6-3-45	SAMPLE DATE	6-4-E6	
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	05/31/87 05/31/87	28300.00 10900.00 { 470.00}	06/02/87	918.00	06/03/87	13100.00	
					6-8-17		6-8-32		6-10-E12	
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	05/31/87 05/31/87	32300.00 158000.00 * { 1500.00}	06/04/87	5830.00	06/03/87 06/03/87	20300.00 14600.00 { 488.00}	
					6-10-54A		6-12-4B		6-13-64	
NITRATE	PPB	500.00	45000.00	06/03/87	12600.00		NR	06/03/87	887.00	
					6-14-E6T		6-14-38		6-14-47	
A.131	NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	04/26/87	41800.00 * { 798.00}	06/04/87	4760.00	06/02/87	958.00
					6-17-70		6-19-43		6-19-58	
NITRATE	PPB	500.00	45000.00	06/03/87	41800.00	06/02/87	11300.00		NO REPORTABLE DATA	

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 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE		SAMPLE DATE	6-20-E5AP	SAMPLE DATE	6-20-E5AR
NITRATE	PPB	500.00	45000.00	06/03/87	3240.00	04/26/87	18300.00		NO REPORTABLE DATA
					6-20-E12		6-20-E12P		6-20-82
NITRATE	PPB	500.00	45000.00	06/03/87	34200.00		NO REPORTABLE DATA	06/03/87	21100.00
TRITIUM	PCI/L	500.00	20000.00	06/03/87	648.00 { 178.00}				
					6-21-6		6-22-70		6-24-1T
HNITRAT	PPB	2500.00	45000.00		NR	06/18/87	10800.00		
NITRATE	PPB	500.00	45000.00	06/03/87	37000.00		NR	06/03/87	600.00
TRITIUM	PCI/L	500.00	20000.00	06/03/87	53600.00 * { 772.00}			06/03/87	10800.00 { 374.00}
					6-24-1P		6-24-1R		6-24-1S

THESE THREE WELLS HAD NO REPORTABLE DATA

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- X - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-24-46	SAMPLE DATE	6-25-55	SAMPLE DATE	6-25-70
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	06/04/87	8770.00	06/04/87	14500.00	06/02/87 06/02/87	12600.00 889.00 { 186.00}
					6-26-15A		6-26-89		6-27-8
CO 60	PCI/L	22.50	100.00	05/01/87	23.20 { 9.68}		NR		
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	05/01/87 05/01/87	42500.00 367000.00 + { 2260.00}	06/03/87	4110.00 NR	06/03/87 06/03/87	37600.00 329000.00 * { 1880.00}
					6-28-40P		6-28-52A		6-29-78

THESE THREE WELLS HAD NO REPORTABLE DATA

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- ** - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-31-31	SAMPLE DATE	6-31-31P	SAMPLE DATE	6-32-62
LOALPHA	PCI/L	2.00	15.00		NR		NR	05/31/87	2.51 { 0.69}
NITRATE	PPB	500.00	45000.00	06/02/87	8740.00			05/31/87	26800.00
TRITIUM	PCI/L	500.00	20000.00	06/02/87	47800.00 *	{ 831.00}		05/31/87	1890.00 { 310.00}
					6-32-70B		6-32-72		6-32-77
BETA	PCI/L	3.00	50.00		NR	04/06/87	3.53 { 1.61}		NR
					NR	05/08/87	15.40 { 2.82}		NR
					NR	08/04/87	7.94 { 2.12}		NR
NITRATE	PPB	500.00	45000.00	05/31/87	17100.00			05/31/87	6140.00
TRITIUM	PCI/L	500.00	20000.00	05/31/87	278000.00 *	{ 1990.00}	05/31/87	155000.00 *	
					6-34-39A		6-34-41B		6-34-88
A.134 HNITRAT	PPB	2500.00	45000.00	06/19/87	3850.00			06/22/87	06/22/87
TRITIUM	PCI/L	500.00	20000.00	06/19/87	10600.00			12400.00 56100.00 *	17800.00
					{ 427.00}			{ 787.00}	
					6-35-66		6-36-46P		6-36-61A
NITRATE	PPB	500.00	45000.00	05/31/87	22800.00			05/31/87	19600.00
TRITIUM	PCI/L	500.00	20000.00	05/31/87	1210000.00 *	{ 4090.00}			NR
U	PCI/L	0.50	600.00	05/31/87	1.56		NR		NR

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
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 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-36-81B	SAMPLE DATE	6-37-E4	SAMPLE DATE	6-37-43
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	06/31/87	577.00	06/04/87 06/04/87	23500.00 43400.00 * { 790.00}	06/31/87 06/31/87	11700.00 67800.00 * { 1000.00}
CO 60	PCI/L	22.50	100.00	04/28/87	23.50 { 10.00}	6-38-15	6-38-70	6-39-0	-----
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	04/28/87 04/28/87	53500.00 * 457000.00 * { 2610.00}	06/22/87	NR 1200.00 { 195.00}	06/04/87 06/04/87	37900.00 228000.00 * { 1770.00}
HNITRAT NITRATE TRITIUM	PPB PPB PCI/L	2500.00 500.00 500.00	45000.00 45000.00 20000.00	06/22/87	2790.00 NR NR	6-39-39	6-40-82	6-41-1	-----
HNITRAT NITRATE TRITIUM	PPB PPB PCI/L	2500.00 500.00 500.00	45000.00 45000.00 20000.00	06/22/87 06/22/87	16900.00 NR 161000.00 * { 1510.00}	05/31/87 05/31/87	NR 43200.00 65100.00 * { 987.00} NR	05/19/87 05/19/87 05/19/87	NR 34100.00 242000.00 * { 1840.00} 231000.00 * { 1800.00}
U	PCI/L	0.50	600.00		NR	6-41-23	6-42-2	6-42-12A	-----

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-42-40A	SAMPLE DATE	6-42-40B	SAMPLE DATE	6-42-40C
BETA	PCI/L	3.00	50.00	04/06/87	3.32	05/08/87	4.25	NR	NR
				05/08/87	{ 1.50}	06/04/87	{ 1.58}		
				06/04/87	{ 3.79}		3.98		
					{ 4.21}	NR	{ 1.52}		
NITRATE TRITIUM	PPB	500.00	45000.00	04/06/87	25500.00	04/12/87	1120.00	06/04/87	908.00
		500.00	20000.00		NR	05/08/87	{ 320.00}	NR	{ 218.00}
	PCI/L	500.00	20000.00				860.00		NR
							{ 287.00}		
U-CHEM	UG/L	0.73		04/06/87	0.97		NR		NR
					6-43-3		6-44-4		6-44-64
NITRATE TRITIUM	PPB	500.00	45000.00	05/19/87	31400.00	05/19/87	1710.00	05/31/87	47000.00 *
		500.00	20000.00	05/19/87	213000.00 *	05/19/87	114000.00 *	05/31/87	521.00
	PCI/L	500.00	20000.00		{ 1750.00}		{ 1290.00}		{ 278.00}
					6-45-2		6-45-42		6-46-4
NITRATE TRITIUM	PPB	500.00	45000.00	05/19/87	26100.00	06/11/87	7350.00	06/04/87	30500.00
		500.00	20000.00	05/19/87	162000.00 *	06/11/87	63000.00 *	06/04/87	198000.00 *
	PCI/L	500.00	20000.00		{ 1530.00}		{ 787.00}		{ 1680.00}

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 ** - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 X - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-46-21B	SAMPLE DATE	6-47-5	SAMPLE DATE	6-47-35A
HNITRAT NITRATE	PPB PPB	2500.00 500.00	45000.00 45000.00	06/17/87	16700.00 NR NR NR	05/06/87 05/19/87 06/04/87	24700.00 15700.00 21900.00	06/11/87	NR NR NR
TRITIUM	PCI/L	500.00	20000.00	06/17/87	48400.00 * { 730.00 } NR NR	05/06/87 05/19/87 06/04/87	124000.00 * { 1170.00 } 97800.00 * { 1190.00 } 140000.00 * { 1420.00 }		NR NR
U	PCI/L	0.50	600.00		NR	05/19/87	2.23		NR
					6-47-46A		6-47-50		6-47-60
NITRATE	PPB	500.00	45000.00	06/11/87	14300.00	06/11/87	8540.00	05/31/87	21100.00
					6-49-13E		6-49-28		6-49-55A
A-137	CO 60	PCI/L	22.50	100.00	NR		NR	05/31/87	206.00 * { 31.70 }
	NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	04/28/87	4330.00	06/16/87	NR 1260.00 { 196.00 }	05/31/87 05/31/87 05/31/87 198000.00 * 16600.00 { 547.00 }
					6-49-100C		6-50-28B		6-50-30
BETA	PCI/L	3.00	50.00	06/18/87	{ 6.80 2.06 } NR		NR		NR
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00			06/01/87 05/01/87	3190.00 630.00 { 288.00 }		

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-50-42	SAMPLE DATE	6-50-45	SAMPLE DATE	6-50-48B
BETA	PCI/L	3.00	50.00	06/11/87	7.35 { 2.10}		NR		NR
LOALPHA	PCI/L	2.00	15.00	06/11/87	2.33 { 0.69}		NR		NR
NITRATE	PPB	500.00	45000.00	06/11/87	4810.00				
TRITIUM	PCI/L	500.00	20000.00	06/11/87	3210.00 { 243.00}				
					6-50-85		6-51-46		6-51-63
							-----		-----
NITRATE	PPB	500.00	45000.00	05/01/87	24900.00			05/01/87	17200.00
TRITIUM	PCI/L	500.00	20000.00			06/11/87	7790.00 { 377.00}		
					6-52-19		6-52-46A		6-52-48
					-----		-----		-----
NITRATE	PPB	500.00	45000.00	04/28/87	4400.00		NR		NO REPORTABLE DATA

A.138

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-53-35	SAMPLE DATE	6-53-47A	SAMPLE DATE	6-53-47B
BETA	PCI/L	3.00	50.00		NR	04/06/87	127.00 %	04/06/87	143.00 %
					NR	05/07/87	{ 7.63} %	05/07/87	{ 8.05} %
					NR	06/04/87	{ 7.44} %	06/04/87	{ 8.71} %
LOALPHA	PCI/L	2.00	15.00		NR	04/06/87	{ 120.00 %	04/06/87	163.00 %
					NR	05/07/87	{ 7.44} %	05/07/87	{ 8.71} %
					NR	06/04/87	{ 122.00 %	06/04/87	{ 152.00 %
NITRATE SR 90	PPB PCI/L	600.00 5.00	45000.00 8.00	06/11/87	3000.00	04/06/87	{ 7.62} %	04/06/87	{ 8.42} %
					NR	05/07/87	{ 3.68} %	05/07/87	{ 3.61} %
					NR	06/04/87	{ 0.77} %	06/04/87	{ 0.81} %
SR 90	PPB PCI/L	5.00	8.00	06/11/87	NR	04/06/87	{ 3.60} %	04/06/87	{ 4.00} %
					NR	05/07/87	{ 0.78} %	05/07/87	{ 0.87} %
					NR	06/04/87	NR	06/04/87	NR
BETA	PCI/L	3.00	50.00	04/06/87	9.54	04/06/87	495.00 %	NR	NR
					{ 3.68}	05/07/87	{ 30.30} %		
					7.92	05/07/87	531.00 %		
LOALPHA	PCI/L	2.00	15.00	05/07/87	{ 3.59}	06/04/87	{ 31.40} %	NR	NR
					16.20	06/04/87	517.00 %		
					{ 4.49}	06/04/87	{ 31.00} %		
SR 90	PCI/L	5.00	8.00	06/04/87	2.52	NR	NR	NR	NR
					{ 0.67}				
					8.41				
SR 90	PCI/L	5.00	8.00	06/04/87	{ 1.20}	04/06/87	320.00 *	NR	NR
					NR				
					NR				
SR 90	PCI/L	5.00	8.00	06/04/87	NR	05/07/87	285.00 *	NR	NR
					NR				
					NR				
SR 90	PCI/L	5.00	8.00	06/04/87	NR	06/04/87	308.00 *	NR	NR
					NR				
					NR				

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* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-53-55A	SAMPLE DATE	6-53-103	SAMPLE DATE	6-54-34
BETA	PCI/L	3.00	50.00	04/06/87	9.57 { 2.31} 05/08/87 6.31 { 1.99} 08/04/87 7.63 { 2.16}	NR	NR	NR	NR
NITRATE	PPB	600.00	45000.00		NR	NR	NR	06/11/87	13600.00
					6-54-37A		6-54-42		6-54-48
BETA	PCI/L	3.00	50.00		NR NR NR	NR	NR	04/06/87 { 6.91} 05/07/87 { 94.20 %	103.00 %
SR 90	PCI/L	5.00	8.00		NR NR NR	NR	NR	06/04/87 { 6.69} 04/06/87 { 7.49} 05/07/87 { 59.00 *	94.20 %
						NR	NR	06/04/87 { 4.36} 05/07/87 { 42.10 *	117.00 %
						NR	NR	06/04/87 { 3.28} 04/06/87 { 47.50 *	59.00 *
							NR	06/04/87 { 3.57}	42.10 *

A140

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- † - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- ‡ - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
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WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-54-49	SAMPLE DATE	6-54-57	SAMPLE DATE	6-55-40
BETA	PCI/L	3.00	50.00	04/06/87	22.60 { 3.31}		NR		NR
				05/07/87	45.80 { 4.62}		NR		NR
				08/04/87	94.10 % { 6.64}		NR		NR
SR 90	PCI/L	6.00	8.00	04/06/87	14.40 * { 2.19}		NR		NR
				05/07/87	19.10 * { 2.28}		NR		NR
				08/04/87	46.20 * { 3.87}		NR		NR
					6-55-44		6-55-50A		6-55-50C
BETA	PCI/L	3.00	50.00		NR		NR	06/11/87	4.72 { 1.77}
NITRATE	PPB	500.00	45000.00		NR		NR	06/11/87	3200.00
					6-55-50D		6-55-70		6-55-76
A-141	BETA	PCI/L	3.00	50.00	06/11/87	4.80 { 1.80}	NR		NR
	NITRATE	PPB	500.00	45000.00	06/11/87	7030.00		06/01/87	7200.00
					6-55-89		6-55-43		6-55-53
	HNITRAT	PPB	2500.00	45000.00	06/16/87	4620.00	NR		NO REPORTABLE DATA

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 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 \$ - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-57-25A	SAMPLE DATE	6-57-29A	SAMPLE DATE	6-57-83A
HNITRAT	PPB	2500.00	45000.00						
NITRATE	PPB	500.00	45000.00						
TRITIUM	PCI/L	500.00	20000.00						
				04/30/87	NR 3200.00	04/30/87 04/30/87	NR 2460.00 639.00 { 286.00}	06/16/87	3090.00 NR NR
					6-58-24		6-59-32		6-59-58
BETA	PCI/L	3.00	50.00		NR		NR	04/26/87	4.54 { 1.71}
HNITRAT	PPB	2500.00	45000.00	06/17/87	4270.00		NR		NR
NITRATE	PPB	500.00	45000.00		NR	04/30/87	4210.00		
TRITIUM	PCI/L	500.00	20000.00			04/30/87	883.00 { 292.00}	04/26/87	709.00 { 288.00}
					6-59-80B		6-60-32		6-60-57
NITRATE	PPB	500.00	45000.00		NR	04/30/87	5280.00		
TRITIUM	PCI/L	500.00	20000.00		NR	04/30/87	761.00 { 289.00}	04/26/87	515.00 { 282.00}
					6-60-60		6-61-37		6-61-41
NITRATE	PPB	500.00	45000.00			04/30/87	4190.00		
TRITIUM	PCI/L	500.00	20000.00	04/26/87	8150.00 { 430.00}	04/30/87	962.00 { 294.00}	04/30/87	2280.00

A.142

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-61-62	SAMPLE DATE	6-61-66	SAMPLE DATE	6-62-31
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	04/26/87 04/26/87	39700.00 8420.00 { 432.00}	04/26/87	3900.00	04/30/87	44500.00 NR
					6-62-43F		6-63-25A		6-63-51
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	04/30/87 04/30/87	3380.00 801.00 { 290.00}	04/28/87	18000.00	04/26/87 04/26/87	3360.00 823.00 { 290.00}
					6-63-55		6-63-58		6-63-90
BETA	PCI/L	3.00	50.00		NR	04/30/87	14.30 { 2.67}		NR
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	04/26/87 04/26/87	1630.00 600.00 { 284.00}	04/30/87 04/30/87	8520.00 1190.00 { 300.00}	05/03/87	5290.00
					6-64-27		6-64-62		6-65-50
HNITRAT NITRATE TRITIUM	PPB PPB PCI/L	2500.00 500.00 500.00	45000.00 45000.00 20000.00	04/28/87	NR 44300.00	04/30/87 04/30/87	NR 25800.00 9040.00 { 445.00}	06/17/87 06/17/87	3430.00 NR 593.00 { 177.00}

A.143

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
- VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-65-59	SAMPLE DATE	6-65-72	SAMPLE DATE	6-65-83	
HNITRAT NITRATE TRITIUM	PPB PPB PCI/L	2500.00 500.00 500.00	45000.00 45000.00 20000.00	06/17/87 06/17/87	3500.00 NR 619.00 { 177.00}	05/03/87 05/03/87	NR 23200.00 3820.00 { 357.00}	05/03/87 05/03/87	NR 4570.00 1150.00 { 300.00}	
					6-66-23		6-66-38		6-66-39	
NITRATE	PPB	500.00	45000.00	04/28/87	42800.00		THESE TWO WELLS HAD NO REPORTABLE DATA			
					6-66-58		6-66-64		6-66-103	
HNITRAT NITRATE TRITIUM	PPB PPB PCI/L	2500.00 500.00 500.00	45000.00 45000.00 20000.00	04/26/87 04/26/87	NR 1250.00 613.00 { 285.00}	06/17/87 06/17/87	14200.00 NR 6510.00 { 306.00}	05/03/87	NR 595.00	
					6-67-51		6-67-86		6-67-98	
A-14	NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	04/26/87 04/26/87	863.00 718.00 { 288.00}	05/03/87 05/03/87	2770.00 1070.00 { 298.00}	05/03/87 05/03/87	4740.00 1980.00 { 318.00}
					6-68-105		6-69-38		6-70-68	
HNITRAT NITRATE TRITIUM	PPB PPB PCI/L	2500.00 500.00 500.00	45000.00 45000.00 20000.00	05/03/87	NR 1990.00	04/27/87	NR 885.00	06/16/87 06/16/87	4370.00 NR 2090.00 { 216.00}	

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-71-30	SAMPLE DATE	6-71-52	SAMPLE DATE	6-71-77
HNITRAT	PPB	2500.00	45000.00		NR		NR	06/16/87	7770.00
NITRATE	PPB	500.00	45000.00	04/27/87	25100.00	04/27/87	6600.00	06/16/87	NR
TRITIUM	PCI/L	500.00	20000.00			04/27/87	911.00 { 292.00}		3170.00 { 241.00}
					6-72-73		6-72-88		6-72-92
HNITRAT	PPB	2500.00	45000.00	06/16/87	4850.00		NR		NR
NITRATE	PPB	500.00	45000.00	06/16/87	NR	05/03/87	4640.00	05/03/87	6210.00
TRITIUM	PCI/L	500.00	20000.00	06/16/87	3250.00 { 243.00}	05/03/87	2640.00 { 330.00}	05/03/87	1770.00 { 313.00}
					6-73-61		6-74-44		6-77-36
HNITRAT	PPB	2500.00	45000.00	04/27/87	NR	06/17/87	3680.00		NR
NITRATE	PPB	500.00	45000.00		7050.00		NR	04/28/87	67300.00 *
					6-78-62		6-80-43P		6-80-43R
NITRATE	PPB	500.00	45000.00	04/27/87	7480.00				THESE TWO WELLS HAD NO REPORTABLE DATA

A.145

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
- # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
- % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
- + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
- NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
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TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-80-43S	SAMPLE DATE	6-81-58	SAMPLE DATE	6-84-35A0
NITRATE	PPB	500.00	45000.00	04/26/87	8240.00	04/27/87	1130.00	04/27/87	11900.00
BETA	PCI/L	3.00	50.00		6-87-55		6-98-49		6-97-43
NITRATE	PPB	500.00	45000.00	04/27/87	NR	04/28/87	5.29	04/28/87	4.83
TRITIUM	PCI/L	500.00	20000.00	04/27/87	20600.00	04/28/87	{ 1.82}	04/28/87	{ 1.86}
					60300.00 *	04/28/87	12400.00	04/28/87	23700.00
					{ 821.00}	04/28/87	14000.00	04/28/87	9360.00
							{ 440.00}		{ 379.00}
HNITRAT	PPB	2500.00	45000.00		6-97-51A		6-101-48B		6-S3-E12
NITRATE	PPB	500.00	45000.00	04/27/87	NR	06/12/87	2680.00		
TRITIUM	PCI/L	500.00	20000.00	04/27/87	20800.00		NR	05/31/87	NR
					15400.00			05/31/87	22600.00
					{ 463.00}				5140.00
									{ 376.00}
A-146					6-S6-E4B		6-S6-E4D		6-S7-34
NITRATE	PPB	500.00	45000.00	06/03/87	15000.00	06/03/87	24600.00		
TRITIUM	PCI/L	500.00	20000.00	06/03/87	NR	06/03/87	24900.00		NR
					20600.00 *	06/03/87	35000.00 *		
					{ 564.00}	06/03/87	{ 715.00}		
					NR	06/03/87	35100.00 *		NR
U	PCI/L	0.50	600.00	06/03/87	2.74	06/03/87	{ 722.00}		NR
					NR	06/03/87	2.77		NR
						06/03/87	2.86		

* - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
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 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.6. (contd)

CONSTITUENT NAME	UNITS	DETECTION LIMIT	WATER STANDARD	SAMPLE DATE	6-S11E12A	SAMPLE DATE	6-S11E12AP	SAMPLE DATE	6-S12-29
NITRATE TRITIUM	PPB PCI/L	500.00 500.00	45000.00 20000.00	05/31/87	3190.00 { 337.00}	05/31/87	20000.00	06/02/87	18700.00
					6-S14-28A		6-S18-51		6-S19-11
NITRATE	PPB	500.00	45000.00	05/31/87	2780.00	06/02/87	1030.00	05/31/87	9560.00
					6-S24-19		6-S27-E14		6-S28-E0
BETA	PCI/L	3.00	50.00		NR		NR	06/03/87	8.17 { 2.22}
NITRATE	PPB	500.00	45000.00		NR	05/07/87	26400.00	06/03/87	10100.00
					NR	06/04/87	26000.00		NR
TRITIUM	PCI/L	500.00	20000.00		NR	06/04/87	28100.00		NR
U	PCI/L	0.50	600.00		NR	05/07/87	853.00		NR
					NR	05/07/87	{ 312.00}		NR
					NR	06/04/87	2.63		NR
					NR	06/04/87	3.41		NR
					NR	06/04/87	3.46		NR

6-S31-1P

NO REPORTABLE DATA

- * - VALUE EXCEEDS PRIMARY DRINKING WATER STANDARD.
 # - VALUE EXCEEDS PROPOSED PRIMARY DRINKING WATER STANDARD.
 % - VALUE EXCEEDS SCREENING LEVEL FOR FURTHER INVESTIGATION.
 + - DETECTION LIMIT WAS NOT AVAILABLE FOR COMPARISON
 NR - ANALYSIS NOT REQUESTED OR NOT YET REPORTED
 VALUES IN { } ARE COUNTING ERRORS FOR RADIONUCLIDES
 WATER STANDARD(S) IN PARENTHESES ARE PROPOSED ONLY

TABLE A.7. Key to Constituent Names in Tables A.4, A.5, and A.6

Name in Tables	Units	Group	Full Name
1,1,1-T	ppb	VOLORG	1,1,1-trichloroethane
ACETONE	ppb		Acetone
ALKALIN	ppb		Total alkalinity in ppb CaCO ₃
ALUMNUM	ppb	ICPMT	Aluminum
AMMONIU	ppb		Ammonium ion
ARSENIC	ppb		Arsenic
BARIUM	ppb	ICPMT	Barium, unfiltered
BETA	pCi/L		Gross beta
BIS2EPH	ppb	SEMVOLE	Bis(2-ethylhexyl) phthalate
CADMUM	ppb	ICPMT	Cadmium, unfiltered
CALCIUM	ppb	ICPMT	Calcium, unfiltered
CHLFORM	ppb	VOLORG	Chloroform
CHLORID	ppb	IONS	Chloride
CHROMUM	ppb	ICPMT	Chromium, unfiltered
CO 60	pCi/L	GAMMA	Cobalt-60
COLIFRM	mpn		Coliform bacteria
CONDFLD	μmho		Specific conductance
COPPER	ppb	ICPMT	Copper, unfiltered
CS-137	pCi/L	GAMMA	Cesium-137
CYANIDE	ppb		Cyanide
FALUMIN	ppb	ICPMTF	Aluminum, filtered
FASENNI	ppb		Arsenic, filtered
FBARIUM	ppb	ICPMTF	Barium, filtered
FCADMIU	ppb	ICPMTF	Cadmium, filtered
FCALCIU	ppb	ICPMTF	Calcium, filtered
FCHROMI	ppb	ICPMTF	Chromium, filtered
FCOPPER	ppb	ICPMTF	Copper, filtered
FIRON	ppb	ICPMTF	Iron, filtered
FLEAD	ppb		Lead, filtered
FLUORID	ppb	IONS	Fluoride
FMAGNES	ppb	ICPMTF	Magnesium, filtered
FMANGAN	ppb	ICPMTF	Manganese, filtered
FMERCUR	ppb		Mercury, filtered
FNICKEL	ppb	ICPMTF	Nickel, filtered
FPOTASS	ppb	ICPMTF	Potassium, filtered
FSELENI	ppb		Selenium, filtered
FSILVER	ppb	ICPMTF	Silver, filtered
FSODIUM	ppb	ICPMTF	Sodium, filtered
FSTRONT	ppb	ICPMTFE	Strontium, filtered
FVANADI	ppb	ICPMTF	Vanadium, filtered
FZINC	ppb	ICPMTF	Zinc, filtered
HNITRAT	ppb		Nitrate, high detection limit
HXDECAC	ppb		Hexadecanoic acid
IRON	ppb	ICPMT	Iron, unfiltered
LEADGF	ppb		Lead (graphite furnace)
LOALPHA	pCi/L		Gross alpha
MAGNES	ppb	ICPMT	Magnesium, unfiltered
MANGESE	ppb	ICPMT	Manganese, unfiltered

TABLE A.7. (contd)

Name in Tables	Units	Group	Full Name
METHONE	ppb	VOLORG	Methyl ethyl ketone
METHYCH	ppb	VOLORG	Methylene chloride
MOLSULF	ppb		Molecular sulfur
NICKEL	ppb	ICPMT	Nickel, unfiltered
NITRATE	ppb	IONS	Nitrate
NNIDIME	ppb	SEMVOLE	N-nitrosodimethylamine
NONACD	ppb		Nonadeconic acid
PHFIELD			pH (measured in field)
PHOSCPHA	ppb	IONS	Phosphate
POTASUM	ppb	ICPMT	Potassium, unfiltered
PU39-40	pCi/L	PU-ISO	Plutonium-239, 240
RADIUM	pCi/L		Radium-226
RU 103	pCi/L		Ruthenium-103
RU 106	pCi/L	GAMMA	Ruthenium-106
SB 125	pCi/L		Antimony-125
SODIUM	ppb	ICPMT	Sodium, unfiltered
SR 90	pCi/L		Strontium-90
STRONUM	ppb	ICPMTE	Strontium, unfiltered
SULFATE	ppb	IONS	Sulfate
TC	ppb		Total carbon
TC-99	pCi/L		Technetium-99
TDS	ppm		Total dissolved solids
TETRANE	ppb	VOLORG	Tetrachloromethane (Carbon tetrachloride)
TOC	ppb		Total organic carbon
TOX	ppb		Total organic halogen
TOXLDL	ppb		Total organic halogen, low detection limit
TRANDE	ppb	VOLORGE	Trans-1,2-dichloroethene
TRICENE	ppb	VOLORG	Trichloroethylene (1,2-trichloroethene)
TRITIUM	pCi/L		Tritium
U	pCi/L		Total uranium
U 234	pCi/L		Uranium-234
U 235	pCi/L		Uranium-235
U 238	pCi/L		Uranium-238
U-CHEM	$\mu\text{g}/\text{L}$ (a)		Total uranium
UNKNOWN	ppb		
VANADUM	ppb	ICPMT	Vanadium, unfiltered
ZINC	ppb	ICPMT	Zinc, unfiltered

(a) $\mu\text{g}/\text{L}$ = ppb.

REFERENCES

Law, A. G., J. A. Serkowski, and A. L. Schatz. 1987. Results of the Separations Area Ground-Water Monitoring Network for 1986.
RHO-RE-SR-87-24P, Rockwell Hanford Operations, Richland, Washington.

APPENDIX B

DRINKING WATER STANDARDS AND
DERIVED CONCENTRATION GUIDELINES

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TABLE B.1. Radiological Drinking Water Standards: U.S. Environmental Protection Agency, National Interim Primary Drinking Water Regulations (OFR 1986) and State of Washington, Rules and Regulations of the State Board of Health Regarding Public Water Systems

Contaminant	Limit
Gross alpha (excluding uranium)	15 pCi/L
Combined radium-226 and radium-228	5 pCi/L
Radium-226 (State of Washington only)	3 pCi/L
Gross beta and gamma radioactivity from manmade radionuclides	Annual average concentration shall not produce an annual dose from manmade radionuclides equivalent to the total body or any internal organ dose greater than 4 mrem/yr. If two or more radionuclides are present, the sum of their annual dose equivalent shall not exceed 4 mrem/yr.
	Compliance may be assumed if annual average concentrations for gross beta activity, tritium, and strontium-90 are less than 50 pCi/L, 20,000 pCi/L, and 8 pCi/L, respectively. It should be noted that these "screening levels" are conservatively calculated and not directly equivalent to an annual dose of 4 mrem.

The following list provides the annual average concentrations, with respect to the Columbia River, for selected manmade radionuclides of interest. These radionuclides are assumed to yield an annual dose of 4 mrem to the indicated organ. Data are taken from the National Interim Primary Water Regulations, Table IV-2A (USEPA 1976 and OFR 1986).

Radionuclide	Critical Organ	Concentration, pCi/L
Antimony-125	GI (LLI)	300
Cesium-134	GI (s)	20,000
Cesium-137	Whole body	200
Cobalt-60	GI (LLI)	100
Iodine-129	Thyroid	1
Iodine-131	Thyroid	3
Niobium-95	GI (LLI)	300
Ruthenium-106	GI (LLI)	30
Strontium-89	Bone	20
Strontium-89	Bone marrow	80
Strontium-90	Bone marrow	8
Technetium-99	GI (LLI)	900
Tritium	Whole body	20,000
Zirconium-95	GI (LLI)	200

TABLE B.2. Chemical Drinking Water Standards: U.S. Environmental Protection Agency, National Interim Primary Drinking Water Regulations (OFR 1986) and State of Washington, Rules and Regulations of the State Board of Health Regarding Public Water Systems (USEPA 1976)

<u>Chemical Constituent</u>	<u>Concentration</u>
Arsenic	50 ppb (a)
Barium	1 ppm
Cadmium	10 ppb
Carbon tetrachloride	5 ppb
Chromium	50 ppb
Copper	1.3 ppm
Fluorine	2 ppm
Lead	50 ppb
Mercury	2 ppb
Nitrate ion	45 ppm
Selenium	10 ppb

(a) ppb = ppm/1000.

TABLE B.3. Proposed Derived Concentration Guides^(a)

<u>Radionuclide</u>	<u>pCi/L</u>
Antimony-125	60,000
Cerium-144	7,000
Cesium-137	3,000
Chromium-51	1,000,000
Cobalt-60	5,000
Iodine-129	500
Iodine-131	3,000
Manganese-54	50,000
Plutonium-238	400
Plutonium-239,240	300
Ruthenium-103	50,000
Ruthenium-106	6,000
Strontium-89	20,000
Strontium-90	1,000
Technetium-99	100,000
Tritium	2,000,000
Uranium-234	500
Uranium-235	600
Uranium-238	600
Zirconium-65	9,000

(a) Concentrations of radio-nuclides in water that could be continuously consumed and not exceed an effective dose equivalent of 100 mrem/yr.

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U.S. Department of Energy (USDOE). 1981. "Environmental Protection, Safety, and Health Protection Information Reporting Requirements." In DOE Order 5481.1, Washington, D.C.

U.S. Environmental Protection Agency (USEPA). 1976. National Interim Primary Drinking Water Regulations. EPA-570/976-003, Washington, D.C.

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